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CHEMIST and DRUGGIST

OCTOBER 18, 1947



The CHEMIST AND DRUGGIST

for RETAILER - WHOLESALE - MANUFACTURER

Established 1859

28 Essex Street, Strand, London, W.C.2

Registered as a Newspaper

3530
L. CXLVIII

OCTOBER 18, 1947

Annual Subscription (with
Diary) 30/-, Single Copies 1/-

*There will be no economic crisis for you,
if you always stock*

RED DIAMOND PRODUCTS!



RED

BRAND

DIAMOND

BURGOYNE BURBIDGES

Established 1741 & COMPANY LIMITED, LONDON, E.C.6

Index to Advertisers pp. 5 & 6

A PROFITABLE WINTER LINE

*Reduced Prices for***HALIVEROL***—capsules—*

From November 1st, the list prices of 'Haliverol' Capsules to the public and professions will be reduced as follows:—

	NEW PRICE	FORMER PRICE
Vials of 25 capsules	3/- each	4/- each
Bottles of 100 capsules... ..	10/6 each	13/6 each

(Exempt from Purchase Tax).

Bonus Terms are Available for Pharmacists

Ask our representative for particulars or write to 50, Beak Street, London, W.1.—

Good stocks are at present available.



- Each "HALIVEROL" Capsule contains 4,500 units of vitamin A and 900 units of vitamin D.

Parke, Davis & Co., 50 Beak St., London, W.1

Laboratories: Hounslow, Middlesex.

Inc. U.S.A., Liability, Ltd.

The Responsible Answer to an increasing Public Demand

BISODOL provides a pleasant gastric sedative and a rational means of re-establishing normal alkalinity of the body, without risk of systemic disturbance. The formula is one which every Pharmacist can approve and the efficacy of which is evidenced by the remarkable public demand which can only be due to widespread recommendation.

Bisodol can be included with any other International Chemical Co. product to qualify for display discounts.

Parcels of £10 and over 12½% Display Bonus.

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POWDER	
Retail Price (incl. Purchase Tax).	3/8
Per dozen	29/3
Purchase Tax, per dozen	4/10½

TABLETS		
	(30)	(100)
Retail price (Incl.		
Purchase Tax)	1/3	3/3
Per dozen	9/9	26/-
Purchase Tax, per dozen	1/7½	4/4

International Chemical Co. Ltd.
Chenies Street, London, W.C.1



BiSoDoL^(REGD)

ANTACID DIGESTANT



SCOTT & TURNER'S

ROSE HIP SYRUP

for Vitamin C

NOW
New Season's supplies **READY**

SCOTT & TURNER'S
ROSE HIP SYRUP IS NOW AVAILABLE FOR
EVERYONE, ADULTS AS WELL AS CHILDREN.

Intensive Advertising Campaign has started in
newspapers, women's and general magazines,
medical, nursing and health journals.

Attractive Coloured Leaflets, ready shortly for your
counter, tell the public the Vitamin C value of Scott
& Turner's Rose Hip Syrup, with ways of taking it.

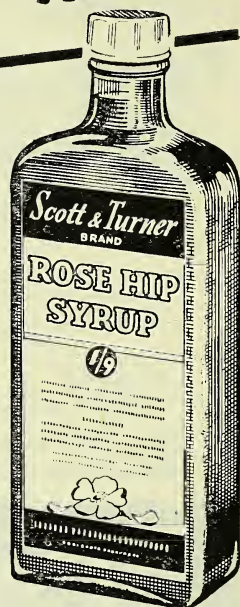
Coloured Showcards, in two different designs, now
ready for window displays.

Special Booklet will be issued to the Medical
Profession shortly.

Selling price 1/9 a Bottle.

Available only through Chemists.

SCOTT & TURNER, LTD., ANDREWS HOUSE, NEWCASTLE - UPON - TYNE

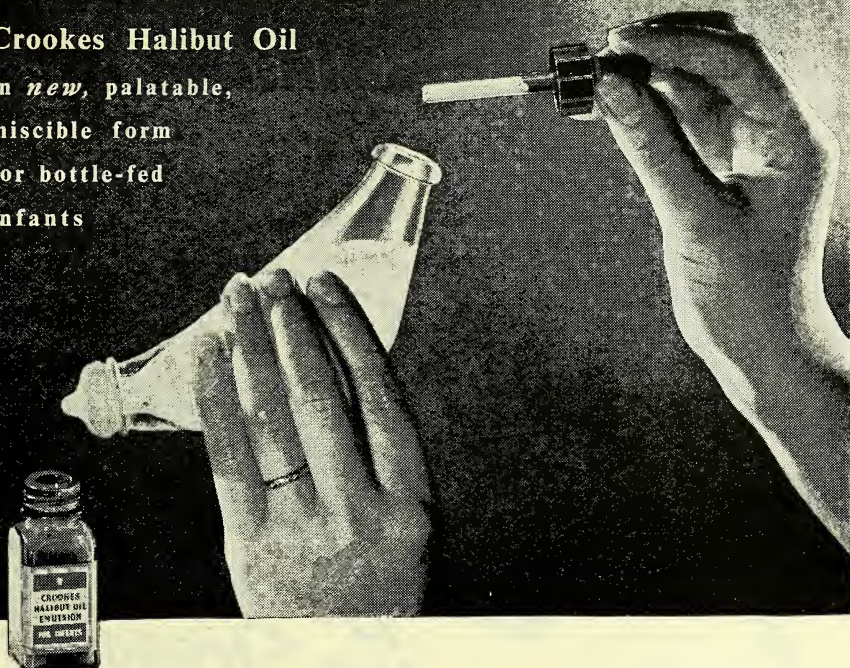


T.1

P. A. T. A.

Crookes Halibut Oil

in *new*, palatable,
miscible form
for bottle-fed
infants



The richest sources of vitamins A and D—the livers of fish—have always had the disadvantages of strong taste and difficulty of mixing with milk. Crookes have now developed their new Halibut Oil *Emulsion* for Infants to overcome these difficulties. This new Emulsion, which is basically the highly potent Crookes Halibut Oil, mixes immediately with milk and is agreeable to take. Three drops in the infant's feed, for only 4 of the daily feeds, provides 3000 I.U.'s of vitamin A and 800 I.U.'s of vitamin D.

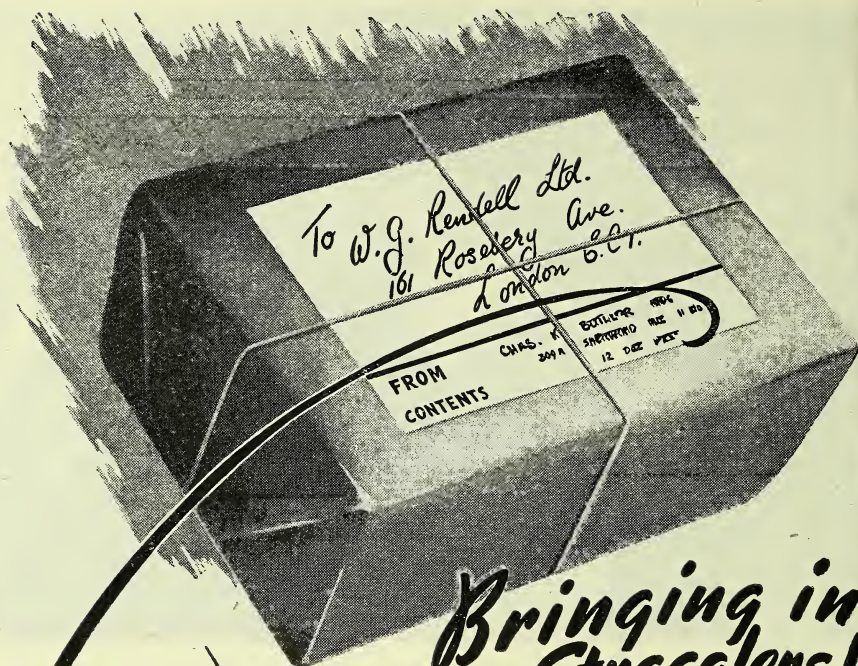
CROOKES HALIBUT OIL EMULSION FOR INFANTS

Obtainable only from Chemists — 3/6d a bottle.

Literature available upon request.

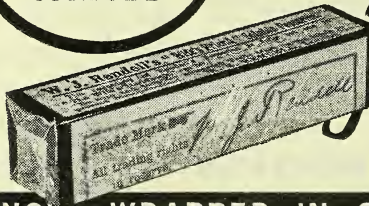


THE CROOKES LABORATORIES LIMITED, PARK ROYAL, LONDON N.W.10



**PLEASE
WRITE
YOUR NAME,
ADDRESS &
NUMBER OF
BOXES ON THE
OUTSIDE
OF YOUR
PARCEL**

Rendells thank chemists in all parts of the country who have sent in stocks of unwrapped Rendells Pessaries for replacement. Response to our appeals has been gratifying, and there can be few if any unwrapped Rendells now on sale. Just in case you should have on your shelves any Rendells Pessaries not wrapped in 'Cellophane' cellulose film, please send them to us at once, as the public now expect to buy our product in this modern hygienic wrapping. Replacements and refund of postage by return of post.



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NOW WRAPPED IN CELLULOSE FILM AGAIN

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Shape of THINGS TO COME

PILLODINES

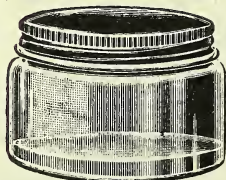
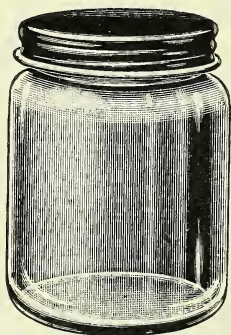
—we venture to prophesy— have a bright and promising future ahead of them. These tiny silver coated pillules of specially treated iodine have striking prophylactic and therapeutic qualities that tackle the common cold in an extremely efficacious and unusual manner. *When dissolved slowly on the tongue they instantly mobilise and bring into action the body defence mechanism.* We are confident that once introduced to this new form of cold immunisation the public will be swift to recognise its virtues. A series of Chemists' window displays featuring the complete 30-day Pillodine treatment in the new 3/6d. one-at-a-time containers are now available. These will be the fore-runner of a vigorous trade and national press advertising campaign.

WATFORD CHEMICAL CO. LTD.

Telephone: WELbeck 0264/8 30 BAKER STREET, LONDON, W.1 Telegrams: Watchempro', Wesdo, London

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REDUCED PRICES for OINTMENT & CREAM POTS WHILE STOCKS LAST

From $\frac{1}{4}$ to 4 oz. with METAL SCREW CAPS

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Also BOTTLES for:

DROPPING, CORN SOLVENT, IODINE,
PERFUME, EYE DROPS, ETC.

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Established Household Remedies!

These Veno products by their unvarying quality, reliability and effectiveness have withstood the searching test of many years' home use. Convincing voluminous nationwide press, poster and other forms of advertising brings and keeps the Veno products before the eyes of the public. Frequent stock-turn is assured. Attractive showcards for all lines now available.

TERMS: Combined orders amounting to £3 and upwards from qualified Chemists will be subject to 10% for display co-operation in addition to our usual 2½% discount for monthly account.



Phensic

Cassell's

Veno's

Germolene

Germoloids

VENO DRUG CO. LTD.
CHESTER RD., MANCHESTER 16

A MARK
AND A NAME



... associated with
**PILLS and
TABLETS**

*Manufactures
also include*

... SOLVELLÆ ...
PHARMACEUTICALS
PACKED SPECIALITIES
'OWN NAME' FORMULÆ

ARTHUR H.

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BRIGHTON • ENGLAND

& CO. LTD.

NOW AVAILABLE

METHERGIN

METHYL ERGOMETRINE TARTRATE

A NEW OXYTOCIC

Methergin, a new semi-synthetic alkaloid, possesses marked advantages over ergometrine, notably a more prolonged action, and enhanced activity. In addition, Methergin is remarkably well tolerated even in high doses, and is devoid of any action on the sympathetic nervous system.

SUPPLIED IN :

SOLUTION (1 c.c. = 0.25 mg.): Bottles of 10 c.c.

AMPOULES (1 c.c. = 0.20 mg.): Boxes of 3, 6, 50 & 100

SANDOZ PRODUCTS LIMITED

134 Wigmore Street, London, W.1

GLANOID

EXTRACT HEPATIS LIQ. B.P.

PACKED IN

1 lb. bottles

Imperial Quarts

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Gallons

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'Phone:
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LIMITED

Our works have now
removed from
**179, GREEN LANES,
N. 16.**

to

**THE ORGAN WORKS,
OLD HILL, CHISLEHURST**

SANIPAN

LAVATORY CLEANSER

one of
**WALKERS
APPROVED
PRODUCTS**

Supplies available
immediately. Order
from usual wholesaler.
Sells at 1/3 per large
screw-top tin (25% re-
tail profit) High quality
product backed by
national advertising, free
sales literature, full
colour showcards, display
matter etc.

W. & F. Walker, Ltd., Liverpool.



FOLIC ACID

for the control of

MACROCYTIC and HYPOCHROMIC ANÆMIAS



Indicated for Macrocytic Anæmias, Pernicious Anæmia, Sprue, Macrocytic Anæmia of Pregnancy, etc. Tubes of 25, bottles of 100 x 5 mgm. tablets. Boxes of 12 x 1 cc. ampoules 15 mgm/cc.



Indicated for both Macrocytic and Hypochromic Anæmias, particularly those that are iron-deficient. Bottles of 100 x 5 mgm. tablets.

Following the brilliant research which preceded the isolation and synthesis of folic acid by the Lederle-Cyanamid Group in America, the substance is now available in this country. Doctors are now prescribing folic acid in the form of Folvite and Folvron and pharmacists are invited to order supplies for stock.

Supplied through your Wholesaler.]

Literature for doctors and pharmacists on request.

Lederle Laboratories
DIVISION

CYANAMID PRODUCTS LTD

BRETENHAM HOUSE, LANCASTER PLACE, LONDON, W.C.2.



HEWSOL

Brand

Trade Mark

THE PERFECT GERMICIDE FOR THE HOME

Hewsol has a high bactericidal value, and is non-poisonous and non-irritating

In white glass bottles of 4 and 8 fl. ozs. packed in counter display as illustrated.

RETAIL PRICES:

4-oz. 1/2d.; 8-oz. 2/1d. inc. Purchase Tax.
33 1/3% Discount to Pharmacists

C. J. HEWLETT & SON, LTD.

Manufacturing Chemists

35-43, Charlotte Rd., London, E.C.2
also at 48, CARSTAIRS STREET, GLASGOW, S.E.

for
TABLETS & PILLS
CAPSULES, LOZENGES
& SUPPOSITORIES

consult

**MATTHEWS
&
WILSON**

EST. 1894

**6-8 COLE STREET
LONDON, S.E.1**

EXPORT
ENQUIRIES
INVITED

DDT

Proparco

INSECTICIDES

POWDER

5% D.D.T. in handy insufflators ready for immediate use.

The powder is blown just where it is required.

Packed in 3 doz. outers.

Retail 9d. ea. 6/- per doz.
3 doz. lots 5/10 per doz.

LIQUID

5% D.D.T. 5% Pyrethrum Extractives.

In 10 oz. bottles attractively labelled in Buff and Maroon.

Retail 2/3 ea. 18/- per doz.
3 doz. lots. 17/6 per doz.

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Manufacturing Chemists

BRADFORD

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SUNDRIES DRUGS
TABLETS & PILLS

FOR
CHEMISTS

*Manufacturing
Chemists*

Head Office & Works Mansfield Road Derby Telephone 4266 (3 lines) Branch Warehouse Grosvenor St Ashton in Lyne Telephone 2816 (2 lines)



RETAIL
PRICES

1/5 & 2/6

Including Purchase Tax

CUPAL MARGINS
AND DISCOUNTS

CUPAL LTD.,

MANUFACTURING
CHEMISTS

BLACKBURN

The Knox Policy

The policy of the Knox Laboratories Ltd., has always been one of creating product confidence by giving users an assurance of satisfaction.

Today, in the National and Provincial Newspapers, in the wide range of Periodicals and Magazines, on the Posters in Trains, Buses and on Station Platforms—in fact in all our Nation-wide advertising the substance of following guarantee of honest trading and straightforward dealing appears.

MAKE THIS TEST

To prove that Cystex may be the very medicine you need to put you on the road to better health than you have had for a long time, get Cystex from your chemist today, price 1/5. This will enable you to see how quickly Cystex gives relief and benefit to health. If difficult to obtain, write giving chemists' name and address to Knox Laboratories Ltd., 29 Duke St., St. James's, London, S.W.1.

Both Cystex and Mendaco are considered of great therapeutic value; do all that is claimed for them, and act quickly. That is why these medicines are so often recommended by one sufferer to others.

Supplies through your usual Wholesaler.

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THE KIDNEY TONIC

For KIDNEYS, BACKACHE
RHEUMATISM

Mendaco

For ASTHMA
BRONCHITIS, HAY FEVER

KNOX LABORATORIES LTD.,
29 DUKE ST., ST. JAMES'S, LONDON, S.W.1

Phone: Regent 4562

CAPSULES

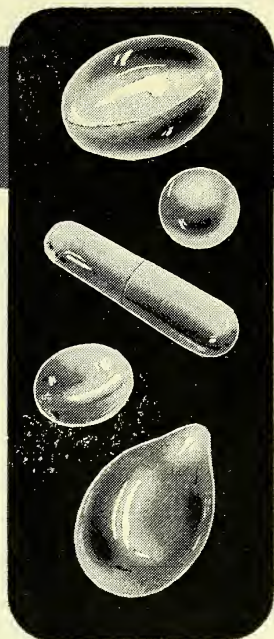
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means quality, guaranteed and absolute reliability. Own formulæ prepared in strict confidence. Hand or machine made capsules according to quantity and contents. Home and Export enquiries invited.

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Registered in all Countries

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CATON & SON

Monument Station Buildings, London, E.C.4

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Makers of 'Vitasac'

R. SUMNER & CO. LTD.

HANOVER STREET • LIVERPOOL, I

Introducing an entirely new range of

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Also our well-known NASTANT INHALANT for
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SOUTHEND-ON-SEA

Telephone: MARINE 68240

Telegrams: WINTERS' SOUTHEND

Prices sent on request

MILLAMALT

Sole Manufacturers

With Vitamins

(A. 6,500 I.U., D. 400 I.U.)
per fl. oz.

JEFFREYS, MILLER & CO. Ltd. Leyland Mills, WIGAN. London Dept.: 19 Brookside Rd., N.1

The VITAMIN
MALT FOOD

Compressed TABLET SERVICE

WHOLESALE & EXPORT

Clients' own material operated if desired. Reasonable estimates.

The DALES ASPIRIN AND TABLETING CO. Barrows Lane, STEETON, Yorks.

BIOLOGICAL PREPARATIONS

THE QUALITY OF ALL MBL PRODUCTS IS ABSOLUTELY IDENTICAL WITH THAT OF PRE-WAR PREPARATION

because of our heavy purchases immediately before war broke out. Our stocks are still considerable and the high MBL standard will be fully maintained.

THERE IS NO SHORTAGE OF ANY OF OUR PREPARATIONS

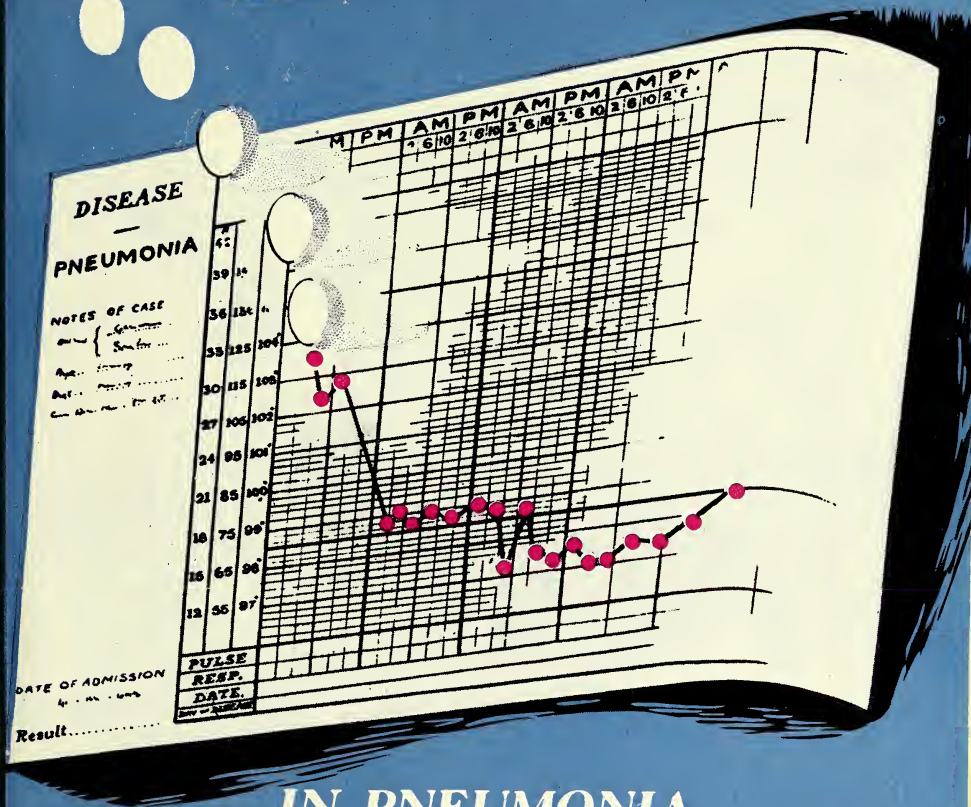
	Retail Prices	CHEMISTS' PRICE					
		Per unit			Per dozen		
	(inclusive of Tax)	Net	+	Purchase Tax	Net	+	Purchase Tax
ANTIPEOL							
OINTMENT	4 oz. tube ...	6/8½			50/5	+	8/5
	40 gr. " ...	3/4½			25/3	+	4/3
	20 gr. " ...	1/10½			14/-	+	2/4
LIQUID	40 c.c. bottle ...	3/4½			25/3	+	4/3
OPHTHALMO-ANTIPEOL							
20 gr. Nozzled Tube ...	3/4½	2/1½	+	4½	25/3	+	4/3
RHINO-ANTIPEOL							
20 gr. Nozzled Tube ...	2/9½	1/9	+	3½	21/-	+	3/6
ENTEROFAGOS							
Box of 50 ampoules ...	19/-	13/3½		None	159/7		None
" 10 " ...	4/3	3/-		None	35/8		None
" 5 " ...	2/6	1/9		None	21/-		None
DETENSYL							
Tin of 500 tablets...	39/-	24/-	+	4/-	288/-	+	48/-
Tube of 50 " ...	4/5½	2/8½	+	5½	32/4	+	5/3
ST. JAMES' BALM							
Tin of approx. 2½ oz. ...	2/10	1/11	+	4	22/6	+	3/9
" " 1 oz. ...	1/5	11	+	2	11/3	+	1/11
Tube " ...	1/2	9	+	2	9/-	+	1/6

Carriage paid on all orders of 1 dozen or £1 and over.
Terms: NETT, Monthly Account.

MEDICO - BIOLOGICAL LABORATORIES LTD., LONDON, S.E.25

SULPHAMEZATHINE

brand
SULPHADIMETHYLPYRIMIDINE



IN PNEUMONIA

PACKINGS

- SULPHAMEZATHINE* POWDER—Bottles of 25, 100 and 500 grammes.
- SULPHAMEZATHINE* TABLETS, 0.5 gramme—Bottles of 25, 100 and 500.
- SULPHAMEZATHINE* SODIUM AMPOULES, 1 gm. per 3 c.c.—Boxes of 6 and 25.
3 gm. per 9 c.c.—Boxes of 5 and 25.

A product of

IMPERIAL CHEMICAL (PHARMACEUTICALS) LIMITED
THE RIDGE, BEECHFIELD ROAD, ALDERLEY EDGE, MANCHESTER

GROWING CHILDREN

LACTATION

CIRCULATORY
DISORDERS

PREGNANCY

CALCIUM
DEFICIENCY

CHILBLAINS



CALOGEN

Regd.

Brand

T A B L E T S

*containing Calcium,
Phosphorus and Vitamin D*

Bottle of 60 Tablets

Retail 3/4 incl. tax. Trade 2/- tax extra
10% discount on £5 parcels.

A 'GENATOSAN' PRODUCT

GENATOSAN LTD., LOUGHBOROUGH, LEICS.

Telephone : Loughborough 2292





COMPELLING ADVERTISING

WITH A TOPICAL THEME KEEPS

'KEPLER' in the news!

'The vigour of this advertising can hardly fail to stir the imagination of mothers—especially at this time, when they are more than ever conscious of the need of the right 'food extras' for their children. They can read the KEPLER message in the national press, the best provincial papers, the big-circulation journals and the women's magazines. Also in your shop if you display the new KEPLER window- and counter-cards. Ask our representative about them—they have a compelling attractiveness that leads to sales on the spot.

There's food as well as vitamins in

'KEPLER'

**'KEPLER' BRAND
COD LIVER OIL
WITH MALT EXTRACT**
In two sizes 3/3 and 5/9

**MORE
GOODNESS
TO THE
SPOONFUL**

In these days growing children depend upon getting the right food extras. After seventy years 'Kepler' is still the finest "food extra" you can buy—so start the children, on 'Kepler' as soon as you can. They all love its sweet, malty flavour. Your chemist has 'Kepler'.

A BURROUGHS WELLCOME & CO. PRODUCT

Two sizes 3/3 and 5/9



BURROUGHS WELLCOME & CO. (The Wellcome Foundation Ltd.)

12, Red Lion Square, London, W.C.1. Telephone: Chancery 6621

I M P O R T A N T A N N O U N C E M E N T

To all users of GUM TRAGACANTH

- GROUND by a special process to ensure controlled tenuity.
- VISCOSITY established under expert supervision.
- TESTED at every stage of processing.
- GRADED to a series of predetermined standards.
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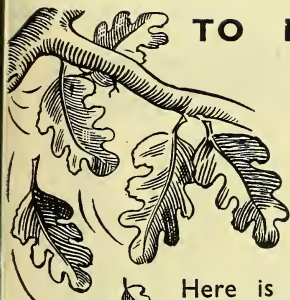
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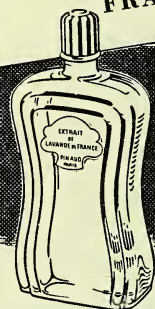
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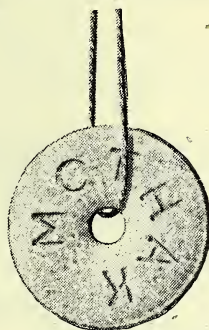
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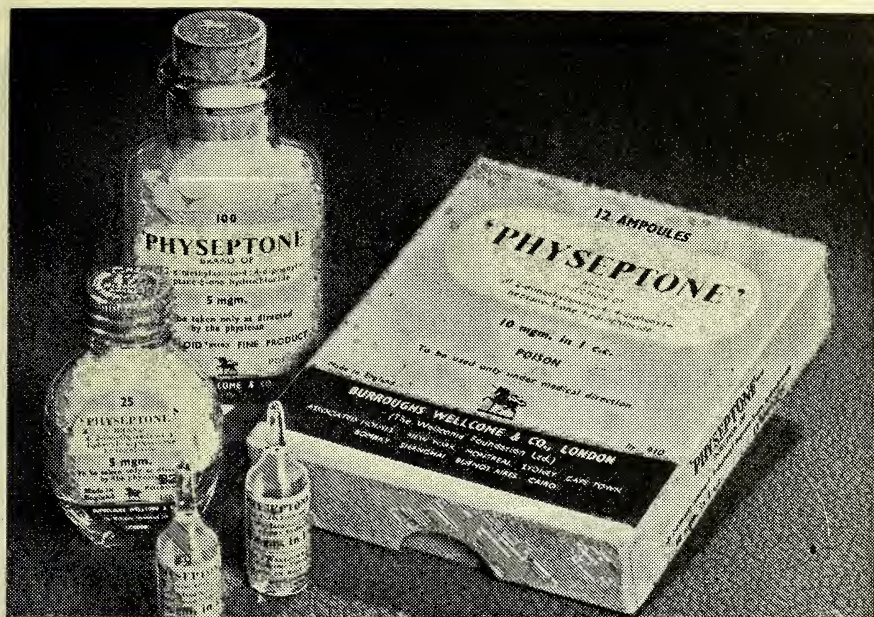


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NEWS OF THE WEEK

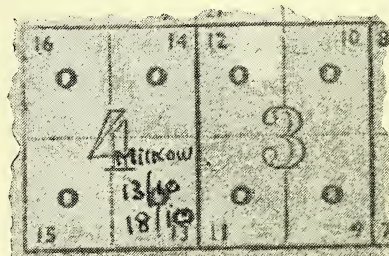
Cut in Invalids' Milk.—From October 19 the priority allowances of milk to invalids are being cut by 2/7.

Wholesale Prices in September.—In the chemicals and oils group, the average wholesale price increase in drugs in September, as measured by the Board of Trade index number, amounted to approximately 3½ per cent.

N.H.S. Staff Superannuation.—The Minister of Health has circulated to local authorities copies of the National Health Service (Superannuation) Regulations, 1947, (S.R. & O., 1947, No. 1755), in which are given particulars of a superannuation scheme for staff employed in the National Health Service otherwise than by local health authorities.

Infant Food Supply Details.—The text of the Proprietary Infant Milk Foods Order (C. & D., October 11, pages 445 and 446) is now available as S.R. & O., 1947, No. 2,151. Under the Order the O coupon (p. 13 of R.B.2) relating to the week in which the purchase is made, must be "effectively and indelibly marked in ink,

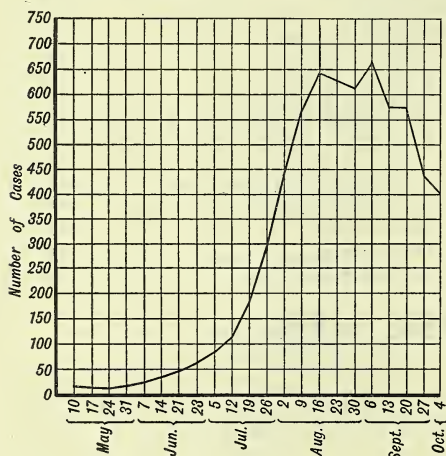
or by other means" by the retailer "once in respect of each tin or other container (of whatever size) supplied during that week." No method of marking is specified. The method suggested in the illustration which accompanies this paragraph is based upon a system that has been successfully operated voluntarily for some time by a



north London pharmacist. For each sale of one tin, the appropriate square is marked with an indication of (a) the brand supplied, and (b) the date of sale. Simply to mark the square with a cross may be inadequate, since the tin may contain less than a week's

supply of food for the infant whose name appears on the ration book. The Order makes it an offence to supply scheduled foods except for a child under two years of age. As green ration books are issued for all children up to the age of five, the infant's age requires to be checked from the cover of the ration book. A schedule to the Order lists proprietary infant foods covered by the restrictions. No provision is made for the sale of infant foods by post direct to the public.

Poliomyelitis Figures. — The number of cases of poliomyelitis notified in England and Wales during week ended October 4 was 402, against 441 in the previous week.



The graph shows the weekly notifications in England and Wales from week ended May 10 to week ended October 4.

More Coal for Industry.—The Minister of Fuel and Power announced on October 14 that the amount of coal to be allocated to large industrial users in the six months November 1, 1947 to May 1, 1948, will be 23,510,000 tons, against an actual consumption in the corresponding period last year of 19,870,000 tons.

Supplies of Razor Blades.—In the period April-June, supplies of safety razor blades for the home civilian market totalled 199,000,000, a rise of 50,000,000 blades on the previous quarter's total. Total supplies for this market in the year 1935 were approximately 440,000,000 blades. Supplies of safety razor holders in the second quarter of 1947 totalled 770,000, against 560,000 in the previous quarter.

LOCAL NEWS

Sheffield Theatre Visit.—The first event in the winter programme of the Sheffield Branch of the National Association of Women Pharmacists, held on October 2, took the form of a visit by members to a local theatre.

Bournemouth Film Show.—More than 100 members of the Bournemouth Pharmaceutical Association, and their assistants, were present at a show of scientific films given on October 2 by Evans Medical Supplies, Ltd. The programme, which included "Heredity in Man," "Conquest of a Germ," "Malaria" and "Take Thou," was introduced by Mr. W. J. Merrick. A collection for the Pharmaceutical Society's Benevolent Fund realised £5 12s.

Aberdare Officers.—At the annual meeting of the Aberdare and Merthyr Branch of the Pharmaceutical Society on October 8, the following officers were elected: *President*, Mr. H. Parry, Nelson, Glam.; *Vice-president* and *Secretary*, Mr. H. Noel Thomas, Aberdare; *Treasurer*, Mr. A. B. Andrews, Aberdare; *Auditors*, Messrs. D. Rees and H. C. Thomas. It was decided to donate £10 10s., the proceeds of the Branch's summer golf meeting, to the Pharmaceutical Society's Benevolent Fund.

Hull Presentations.—Mr. Bernard Foster formally took office as president of the Hull Chemists' Association at a luncheon organised by members recently. Presentations to four war-time presidents (Miss Elsie Palmer and Messrs. E. A. Brocklehurst, N. Taylor and H. Ringrose) were made by Mr. Foster. Mr. Naylor was also presented with the Lofthouse golf cup. An address, "My Prescription—a Day in the Yorkshire Dales," was given by Mr. Stephen Kirby, a local schoolteacher and broadcaster.

Visit to Welwyn Factory.—A party of thirty-four members of the Bedfordshire Branch of the Pharmaceutical Society and their friends, visited the Welwyn Garden City factory of Herts Pharmaceuticals, Ltd., on October 1. The visitors were shown the system of production control, manufacture of the company's surgical plasters, industrial tapes and toilet products, and the chemical plant for the manufacture of synthetic drugs. Tea followed in the factory canteen. Messrs. G. N. Shelton and H. W. S. Wynter thanked the company on behalf of the visitors.

Leichner Luncheon. — A gathering of about 150 of the leading actors and actresses of the stage, screen and radio were present at the annual goodwill luncheon given by L. Leichner (London), Ltd., 32 Acre Lane, London, S.W.2, at the



Mr. J. Arthur Rank in conversation with Mrs. S. Pollitzer at a luncheon arranged by L. Leichner (London), Ltd., in London recently.

Savoy Hotel, London, on October 7. The managing director (Mr. S. Pollitzer) and Mrs. Pollitzer received the guests. Sir Alan P. Herbert, M.P., chairman, gave the toast "The House of Leichner," Dame Sybil Thorndike and Mr. J. Arthur Rank, J.P., replied to the toast "The Theatrical Profession."

Southampton Vitamin Lecture.—At a meeting of the Southampton Branch of the Pharmaceutical Society and the Southampton Chemists' Association held on October 6, Mr. N. Elcock gave a brief account of the history of vitamins from the eighteenth century onwards. He described notes made by Captain Cook on his visit to the Pacific, and discussed the deficiency of vitamins in certain modern foods. The address was followed by two films describing the use of vitamins B₁ and B₂. A vote of thanks to Mr. Elcock was proposed by Mr. F. S. Leaper and seconded by Mr. W. G. Hutcheson.

London Refresher Course. — The Western [London] Pharmacists' Association has arranged a refresher course of nine lectures to be given in London during the winter season. Three lectures, by Dr. H. E. Archer (chemical pathologist, West London Hospital), are on the relationship of laboratory tests to diagnosis and treatment, and five, by Mr. H. S. Grainger (chief pharma-

cist, Prince of Wales General Hospital), deal with antiseptics, sterilisation, ointment bases and other pharmaceutical subjects. There is also one lecture on infectious and contagious diseases. The course commences on October 20 (see "Coming Events," p. 486).

East Kent Dinner. — The winter programme of the East Kent Branch of the Pharmaceutical Society opened with a dinner at Canterbury on October 8. A gift to which many members of the Branch had subscribed was presented to Mr. H. Pope by Miss M. A. Burr (a member of the Society's Council) as an appreciation of his twenty-two years' service as secretary of the Branch. Miss Burr then spoke on "The Education Policy and the Future of Pharmacy," saying that the pharmacist's duties under the new National Health Service Act demanded a broadening of his education. The full benefits of the new Act would not be reaped by pharmacy unless the new education policy was fully developed.

Visit to Exeter. — Members of the British Pharmaceutical Conference Executive and the local Conference committee visited Exeter at the invitation of the Exeter branch of the Society on September 19. The party, numbering about sixty, amongst whom were Mr. B. A. Bull (chairman of the Conference), Mrs. J. K. Irvine (president of the Society), Messrs. H. C. Shaw (vice-president), H. Holmes (chairman, Torquay branch) and P. M. Smith (chairman, Exeter branch), were shown round the Cathedral by the Dean of Exeter who also gave a talk on the ancient and modern history of the building. At the Guildhall afterwards, the mayor and mayoress of Exeter, accompanied by the sheriff and his lady, extended a civic welcome to the visitors and entertained them to tea.

Lecture on Analytical Control. — The Durham County Branch of the Pharmaceutical Society was addressed on October 2 by Dr. G. E. Foster (head of the control laboratories of Burroughs Wellcome & Co.), who spoke on "The Control of Pharmaceutical Products." Dr. Foster began by showing how analytical control had gradually been included in official and semi-official publications. In the B.P., 1898, little attempt at standardisation had been made, but assays had gradually been added and in the B.P., 1932, and its seven addenda, appropriate methods covering a wide field of biology, chemistry and phy-

sics had been included. Dr. Foster went on to describe the methods used by his company to check manufacture at every stage: biological assay, bacteriological testing, examination of packing materials, and micro-chemical analysis. The control was exercised from analysis of raw material, through all intermediate stages to the final filling and packaging. The standards set for the company's tablets and malt preparations were described and Dr. Foster went on to describe micro-chemical methods which made it possible to do complete analyses of costly substances using only minute quantities of material.

Lancashire Analyst's Report.—The Lancashire county analyst, in his recently published report for 1946, says that there is "still a certain amount of doubt in the minds of some pharmacists as to which ointment should be supplied when mercury ointment is demanded." Of six samples purchased as "mercury ointment" (and which, according to a note printed beneath the monograph for dilute ointment of mercury in the Fourth Addendum to the B.P. 1932, should have consisted of a 10 per cent. ointment), two were correctly supplied, but three were found to consist of the 30 per cent. ointment. The sixth sample was found to contain 8.9 per cent. of mercury and was therefore 0.6 per cent. below the B.P. lower limit of 9.5 per cent. Two samples asked for as "strong ointment of mercury" were supplied correctly. Of the total number of samples taken under the Food and Drugs Act, 284 were for drugs. Other samples reported as incorrect were: Camphorated oil (0.6 per cent. excess camphor), sulphur ointment (1.3 per cent. deficient in sulphur), liquorice powder (damp and contaminated with mould), halibut-liver oil emulsion (no declaration of vitamin content), cream of tartar (consisted of "acid phosphate powder"), yeast tablets (unsatisfactory label), and compound yeast tablets (unsatisfactory label and no declaration of vitamins).

OVERSEAS NEWS

Vancouver Opium Discovery.—Canadian police recently seized 415 lb. of opium discovered aboard a Dutch freighter in Vancouver dry-dock.

D.D.T. for China.—The British United Aid to China organisation is sending supplies of D.D.T. to the East China Medical College, Chefoo, for use in experimental work aimed at combating disease.

A Bulawayo Pharmacy.—Smart & Copley, Ltd., chemists, Bulawayo, Southern Rhodesia, have issued an illustrated jubilee brochure describing the growth of the business from its foundation in 1897, "when the streets were nearly ankle-deep in dust ground up by the iron-shod wheels of transport wagons drawn by patient oxen or stubborn mules," to the present day. An illustrated account of the company's history was published in *THE CHEMIST AND DRUGGIST* Annual Special Issue, 1937 (June 26, p. 755).

IRISH NEWS

Irish Chemical Association.—At the annual meeting of the Irish Chemical Association, held in Dublin on September 27, the following officers were elected for 1947-48: *President*, Professor T. S. Wheeler; *Vice-president*, Professor E. J. Conway; *Secretary*, Mr. G. F. O'Sullivan; *Treasurer*, Mr. J. Belton; *Council*, Dr. V. C. Barry, Messrs. T. W. Breen, D. Crowley, and B. G. Fagan, Miss N. MacNeill, and Messrs. N. V. Nowlan and D. O'Tuama.

N.I. Health Services Bill.—The second reading of the Northern Ireland Health Services Bill recently passed the Ulster House of Commons, the four-day debate ending without a division. So far no specific reference has been made to the position of pharmaceutical chemists or to dispensing services. On the committee stage of the Bill a number of amendments to the relevant clauses are to be tabled on behalf of the Pharmaceutical Negotiating Committee.

Irish Drug Association.—Mr. M. Costello (president) was in the chair at a meeting of the committee of the Irish Drug Association held in Dublin on September 29 at which the resignation from the committee of Mr. J. Duggan, Dublin, was accepted with regret. Mr. Duggan, said the chairman, had given valuable service to the Association for twenty years and had been president 1931-33. An interview took place with Messrs. A. D. Davidson (May Roberts (Ireland), Ltd.), P. C. Cahill (P. C. Cahill & Co., Ltd.), and A. W. Hughes (St. Dalmas (Ireland), Ltd.), to discuss a suggested change in the title of the Wholesale Section of the I.D.A. The following new members of the Association were elected: Dr. M. T. Egan, Main Street, Ballyshannon, co. Donegal, and Mrs. Ward, Ph.C., Monkstown Road, Monkstown, co. Dublin.

TOPICAL REFLECTIONS

Study and Success

Year by year, students of the College of the Pharmaceutical Society have the privilege of hearing an address from a visitor, usually a scientist of distinction. This year's opening of the College session (p. 452) was marked by the wise counsel of Sir Alexander Fleming, who was able to draw on the experience of a brilliant career. Sir Alexander summarised the conditions of success as "hard work, clear thinking, careful observation, collaboration with others, and a great deal of good fortune." A long life may be spent without the arrival of the last-named condition; and most people, I suppose, realise before they have gone far on life's journey that good fortune may as well be left out of their calculations. But the other conditions named remain fully relevant. If asked to arrange them in their natural sequence, I should be inclined to transpose the second and third. The importance of clear thinking is beyond dispute. It was Pascal, I believe, who wrote that many of the world's troubles begin in the inability of people to sit still and reflect. The manufacture of penicillin affords an object lesson in the value of collaboration. Without team-work, even the most original discovery in science is likely to remain a neglected curiosity. This unwelcome result is the more probable because of the increasing specialisation of contemporary research and its application. Realising that, men of science should be able to provide against it. What was possible under the stress of war should be made possible in all circumstances.

An Examination Problem

The remarks of Mr. H. M. Hirst and Mr. A. A. Meldrum on the low percentage of recent passes in the Society's Pharmaceutical Chemist examination (p. 438) demand serious attention. Mr. Meldrum was of opinion, as the result of inquiries, that insufficient time was allowed for experiments in practical work during the hours of college study. Whether this remark was intended to cover all subjects involving practice in addition to theory I do not know; but I gather from your report that the blame was attributed to the curriculum. If that is where the fault lies, a caution in this section some time ago about overloading the syllabuses is fully justified. On the framers of those documents rests the responsibility of making up their minds how much students should be expected to learn

in each subject. The day is past when a young man or woman could lightheartedly "have a shot" at any of the Pharmaceutical Society's examinations. Again, there is for the average student (as educationists recognise) a difference in difficulty between various subjects. It is thus of great importance that specifications should be carefully delimited in each curriculum, so that candidates are not confronted with loose ends of learning. As Dr. W. O. Howarth remarked in your issue of August 15, 1942, examiners cannot—generally, I would add—be blamed for failures in the examination room. "They wish to pass candidates . . . Border-line candidates are most carefully considered, their answer books re-read and their practical work reviewed, all with a view to finding those few extra marks required for a pass." If, however, practical work has been neglected or rushed through, the chances of passing are few.

Fortunate Assistants

The brief excerpt (p. 446) from your issue of October 9, 1897, discloses a happy state of affairs. If we could now obtain "all the comforts of a club" once a week for a sessional subscription of 5s., there might be a rush of applicants. In that year the Chemists' Assistants' Association (of London), the subject of your reference, was twenty years of age. This is not an occasion for attempting, even in outline, a sketch of that useful society. My present object is merely to indicate how fortunate those assistants were, meeting in days when this country was confident. I hope they realised their good fortune. Just after reading your paragraph I opened "Mainly on the Air," a recent book of addresses and articles by Sir Max Beerbohm. In the first address he describes the London of the 'eighties and 'nineties, mentioning among other features now almost forgotten the goat that used to wander in Piccadilly. Let no busy reader be offended at the introduction of this historic animal. As it happened, he was a visitor to a pharmacy not far from Hyde Park Corner, and the staff had an ingenious method of persuading him to leave. Rumour had it that he was kept by or on behalf of a distinguished personage with the idea that in the event of fire in the stables he would walk out unperturbed, and that the horses would follow him. I am told that the idea does not work in all circumstances, if it can be said to work in any.

Xrayser

COMPANY NEWS

S. RHYS WILLIAMS, LTD. (P.C.).—Capital £4,000. To acquire the business of dispensing chemists carried on by Sydney R. Williams and Edith I. T. Jarratt at High Street, Burnham, Bucks. Edith I. T. Jarratt and Charles D. Jennery, directors.

JONAH WARNER, LTD. (P.C.).—Capital £1,000. To carry on the business of needle manufacturers (including surgical and suture needles), etc. First directors are to be appointed. R.O.: Grange Works, Bromsgrove Road, Redditch.

MAY PHARMACY, LTD. (P.C.).—Capital £1,500. To carry on the business of chemists, druggists, etc. Malcolm J. May, M.B.E., M.B., B.S., Frank G. May and John G. May, directors. R.O.: 66 Battle Road, St. Leonards-on-Sea.

GYRO COMMODITIES, LTD. (P.C.).—Capital £12,000. To carry on the business of importers and exporters of and dealers in dental and toilet requisites, etc. Keram Tchekmeian and Patrick S. E. Seth-Smith, directors. R.O.: 20 Essex Street, London, W.C.2.

F. DARBY & SON (LONDON), LTD. (P.C.).—Capital £1,000. To acquire the business of a wholesale chemist carried on by F. H. Darby at Bowes Park. Frederick H. Darby, Cecilia M. Darby and Frederick R. Darby, Bush Hill, Middlesex. R.O.: 196 Whittington Road, Bowes Park, London, N.

STEIN, BRANIK & STEIN, LTD. (P.C.).—Capital £1,000. To carry on the business of manufacturers of and dealers in and agents for chemicals, gases, drugs, etc. The directors are not named. Miss Edna Dufman, secretary, 28 Maddox street, London, W.1.

NEURA LABORATORIES, LTD. (P.C.).—Capital £1,500. To carry on the business of manufacturing and general chemists, opticians, etc. H. J. Kenny, Mrs. Marjorie I. Kenny and Dorian Woodward, directors. R.O.: National Bank Buildings, Fenwick Street, Liverpool.

H. GODDARD (CHEMISTS), LTD. (P.C.).—Capital £100. To carry on the business of consulting, analytical, manufacturing, pharmaceutical and general chemists, etc. Harold Goddard and Joseph Nolan, M.P.S., directors. R.O.: 16 Belmont Street, Heaton Norris, Stockport.

ELECTROLLER, LTD. (P.C.).—Capital £900. To carry on the business of manufacturers of and dealers in apparatus for the benefit and use of mankind, etc. Edward G. Eames, Stanley Cox and Russell L. Taylor, directors. R.O.: New Hall, Maidenhead.

THOMAS MILNE (CHEMISTS), LTD. (P.C.).—Registered in Edinburgh. Capital £1,500. To acquire the business carried on by Mrs. A. Milne (executrix of the late

Thomas Milne) as "Thomas Milne" at 669A George Street, Aberdeen. Mrs. Adeline Milne, Mrs. Ada Morgan, James Milne, M.P.S., and John D. C. Anderson, M.P.S., directors. R.O.: 21 Bridge Street, Aberdeen.

JOHNSON AGENCIES (EXPORT), LTD.—Mr. S. C. Springett has resigned his directorship of the company.

HORLICKS, LTD.—Profit for year ended March 31, before provision for E.P.T., amounted to £313,261. Provision for taxation, £223,797. Dividend for the year (net), £82,500; carry forward, £44,179.

GOLDTHORPES (CHEMISTS), LTD.—The company announces that the Board of Trade has authorised the change in name from Bernard Phillips, Ltd. Temporary offices are at 312 London Road, North Cheam, Surrey. Mr. A. M. Gee is the managing director.

Compulsory Winding-up

JENNER FOODS, LTD., Garrick Chambers, 51 Fountain Street, Manchester, manufacturers of patent foods.—A winding-up order has been made on the petition of a creditor and according to the statement of affairs which has been lodged the assets are insufficient fully to discharge the preferential claims and the debentures. Ranking liabilities are set down at £40,160, with a deficiency of the same amount so far as the creditors are concerned. Issued capital was £5,000 and the deficiency as regards the shareholders is £45,160. It appears that since the formation of the company in January 1942 up to the date of the appointment of a receiver for the debenture holders last April the gross profit earned was £61,948 on a turnover of £271,564. In the same period the expenses totalled £107,122, the principal items being salaries and wages £34,848; advertising £23,866; and carriage £6,900. Mr. A. T. Eaves, C.A., of Messrs. Harry L. Price & Co., 47 Mosley Street, Manchester, has been appointed liquidator of the company with a committee of inspection.

BUSINESS CHANGES

MAY & BAKER, LTD., have appointed Mr. E. S. Smith their general representative in the Bristol and South-west area.

PHARMAX, LTD., have transferred their works to The Organ Works, Old Hill, Chislehurst.

BOOTS, LTD., have acquired the business at 27 Shaftesbury Road, Oldfield Park, Bath, formerly carried on by Mr. C. H. James.

JOHN RONALDSON & Co., LTD., 3 Crooked Lane, Cannon Street, London, E.C.4, have the following telephone number: Mansion House 4885. [Corrected note.]

BIRTH

HOLDER.—At 42 Lauder Road, Edinburgh, on October 13, Mary, the wife of Mr. Eldred Holder, Ph.D., B.Pharm., Ph.C., of a daughter (Fiona Mary).

MARRIAGES

ORMISTON-GALLOWAY.—At Tulliallan Parish Church, Kincardine-on-Forth, Kincardines, recently, George Ormiston, M.P.S., 135 Ashley Terrace, Alloa, Clackmannanshire, to Maude D. Galloway.

MCGAVIN-BELL.—At Glasgow, on October 6, William McGavin, M.P.S., Kello-side, Kirkconnell, Dumbartons, to Jane Kilpatrick Bell, Largs.

SYKES-OSBORN.—At St. James's Church, Grimsby, on October 4, Raymond Sykes, M.P.S., 28 Hall Street, Pellon Lane, Halifax, to Margaret M. Osborn, Grimsby.

WRIGHT-RENISON.—Recently, Joseph Crossley Wright, M.P.S., 357 Woodchurch Road, Birkenhead, to Joan May Renison, Coventry.

DEATHS

ALLEN.—At Worrax, Stanstead Abbots, Herts, on October 9, Mrs. Sybil Allen, wife of Mr. Kenneth C. Allen (managing director, Stafford Allen & Sons, Ltd.).

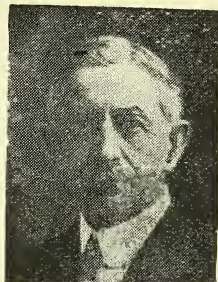
BROWNLIE.—At Fairholme, 5 Gogosside Drive, Largs, Ayr, on October 10, Mr. Archibald McNicol Brownlie, M.P.S., Meadow Place, Skelmorlie, Ayr. Mr. Brownlie qualified in 1910. He is survived by his widow.

CATHCART.—On October 5, Mr. Percival J. A. Cathcart, M.P.S., 130 Latymer Court, London, W.6, aged sixty-nine. Mr. Cathcart was a familiar figure to the many pharmacists who in pre-war days toured the Parke, Davis & Co. laboratories at Hounslow. He had been superintendent of the firm's laboratories for twenty-seven years when he retired in September 1946, and previously for six years assistant superintendent. Altogether, Mr. Cathcart served the company for more than forty-five years, including time spent in the Forces during the 1914-18 war. During his years of office the firm's premises and staff underwent a considerable increase, and it was to his skill and ability that the high reputation of the laboratories is largely due.

FAIRBURN.—On September 28, Mr. George Fairburn, 17 Yewdale Road,

Harrogate, formerly of Leyburn, Yorkshire, aged seventy-six. Mr. Fairburn qualified as a chemist and druggist in 1895.

FRANKLIN.—On October 1, Mr. Alfred James Franklin, M.P.S., 11 Victoria Road, Brighton. Mr. Franklin qualified in 1887. He was for sixty years associated with Franklin & Co. (Brighton), Ltd., Kings Road, Brighton, and prior to that was with Savory & Moore, Ltd., London. Mr. Franklin was a former secretary and president of the Brighton Rotary Club, at one time secretary of the Dyke Golf Club, a member of the former Brighton Board of Guardians, and a life governor of the Royal Sussex County Hospital.



GEDDES.—At the Turner Memorial Hospital, Keith, Banffs, on September 28, Mr. William Geddes, M.P.S., 144 Mid Street, Keith, aged sixty-three.

LARGOMBE.—As the result of an accident, on October 1, Mr. Herbert William Larcumbe, M.P.S., 23 Oakhill Road, Horsham, Sussex, aged fifty-six.

MIALl.—On October 12, after a short illness, Mr. Stephen Miall, LL.D., B.Sc., 28 Clifton Hill, London, N.W.8, aged seventy-five. Dr. Miall was the editor of "A New Dictionary of Chemistry," published in 1940.

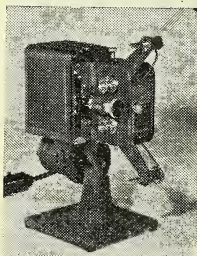
PASSFIELD.—On October 13, Lord Passfield (Sidney Webb) President of the Board of Trade, 1924, and a former chairman of the Technical Education Board of London.

SANDWITH.—Recently, Mr. Rowland Sandwith, M.P.S., Oswaldkirk, Bracknell, Berks, aged sixty-four. Mr. Sandwith qualified in 1904 and took over his father's pharmacy at Bracknell, in 1915. He disposed of the pharmacy to concentrate on the production of crayons, chalk blocks, and horticultural products, building up the business of Timothy Sandwith, Ltd., of which he was chairman and governing director at the time of his death.

WILLIAMS.—On September 22, as the result of an accident, Mr. Richard Roberts Williams, M.P.S., Pen-y-Bont, Dwyran, Anglesey. Mr. Williams qualified as a chemist and druggist in 1938.

TRADE NOTES

Stock "Caution" Labels.—Supplies are now available from James Townsend & Sons, Ltd., chemists' printers, Exeter, of a new stock label for attaching to articles that must be kept in a cool place.



New Cine-projector.—The Kodascope Eight-45, a new model introduced by Kodak, Ltd., Kingsway, London, W.C.2, incorporates a number of attractive features, including simplicity of threading, minimum of controls (which are easily

located even in darkness), and simple change from projection to rewind.

Return to War-time Pack.—Cellucotton Products, Ltd., 33 Aylmer Parade, London, N.2, announce that they have decided to return temporarily to a war-time plain pack of Kotex sanitary towels, with removable tear-off strip carrying the name.

Honey for Manufacturing.—Revised prices approved by the Ministry of Food are given on another page for Bear brand honey, which is available from L. Garvin & Co., Ltd., Garvin House, Isleworth, Middlesex.

Facsimile Documents.—Photostat, Ltd., Adelaide House, King William Street, London, E.C.4, are proprietors of the trade mark Photostat, which is applied to a method of producing facsimile copies of plans, documents, printed matter, etc.

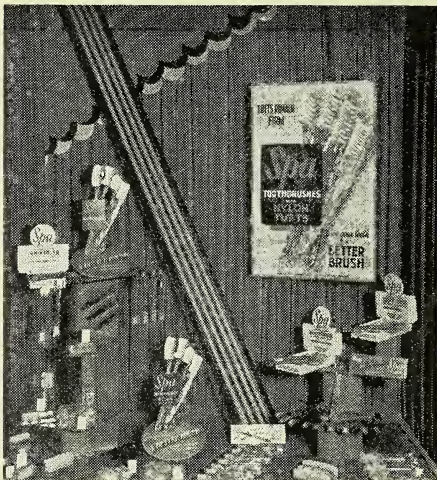
Not Subject to Restriction.—Lactagol, Ltd., London Road, Mitcham, Surrey, manufacturers of Lactagol food for expectant and nursing mothers, point out that the preparation is not a milk-based baby food, and is therefore not subject to the restrictions on sales imposed on baby foods under a recent Order (see p. 459).

DDT Hair Emulsion.—Described as "a new approach" in the eradication of head pests, Suleo DDT hair emulsion is claimed to clear the most heavily infested head or keep a clean head free from head pests for fourteen days, even if contacts are made with infected persons. Suleo is issued in 3-oz. sprinkler bottles.

Vitamin Propaganda.—To promote sales of their newly introduced rose-hip syrup, Scott & Turner, Ltd., Andrews

House, Newcastle-on-Tyne, are issuing (a) a booklet to the medical profession; (b) a leaflet for nursing and expectant mothers, young people, invalids, etc.; (c) an attractive showcard for the product. An announcement appears in this issue.

"Prefabricated" Window Displays.—Two colourful window displays (one of which is illustrated) for Spa toilet brushes and/or Spa tooth-brushes are available for



installing in the windows of stockists by arrangement with the makers, John Freeman & Co., Ltd., Spa Brush Works, Chesham, Bucks. The displays can be varied to suit any type of window. Arrangements can be made through the company's representative on his usual call.

Two-fold Prophylaxis.—For use in simultaneous prophylaxis against diphtheria and whooping cough, Glaxo Laboratories, Ltd., Greenford, Middlesex, have introduced Combined Prophylactic-Glaxo, each c.c. of which contains at least Lf 25 diphtheria prophylactic A.P.T. and 20,000 million *H. pertussis* (alum-precipitated). The course for primary immunisation comprises three injections (0.5 c.c., 0.5 c.c., and 1.0 c.c.) at monthly intervals. The preparation is issued in 5-c.c. and 10-c.c. bottles.

Display Prizewinners.—The Crookes Laboratories, Ltd., Park Royal, London, N.W.10, announce the following prizewinners in their window display competition organised in the North London area, Octo-

ber 6-18: *First* (£40), Mr. J. G. Hayes, M.P.S., Ealing Common, W.5; *second* (£20), The Craven Park Pharmacy, Harlesden, N.W.10; *third* (£10), The Bedford Row Pharmacy, W.C.1. *Consolation* (£2 each), Messrs. C. F. Casey, M.P.S. (Rileys), Shepherds Bush, W.6, and Frank L. Saunders, M.P.S., Bethnal Green, E.2.

Proprietary Articles Trade Association

Additions to the Protected List (Part 1).—*Ashley & Weeks, Ltd.*, Tonic elixir, 14s. 8d. doz., tax 2s. 6d. doz., inclusive retail price 2s. Retrodol, 15s. doz., tax 2s. 6d. doz., i.r.p. 2s. 3d.

J. L. Bragg, Ltd., Bragg's charcoal capsules, 96s.
doz., tax 16s. doz., i.r.p. 11s. 4d.

Calfos, Ltd., Calfos tablets (new size) 500's, 1000's.
doz., tax 16s. 8d. doz., i.r.p. 13s. 11d.

Cannon Rubber Manufacturers, Ltd., Wellborn
teat. 6d., 46s. gross (exempt from tax).

Continental Laboratories, Ltd., Sulfide tablets,
40's, 32s. doz., tax 5s. 2d. doz., i.r.p. 4s. 5½d.;
200's, 116s. doz., tax 18s. 8d. doz., i.r.p. 16s. 1d.;
1,000's 400s. doz., tax 64s. 6d. doz., i.r.p. 62s. 11d.

Elliman, Sons & Co., Ltd. New sizes, Great Britain Northern Ireland and Channel Islands.—

Britain, Northern Ireland and Channel Islands.—
Elliman's Universal embrocation, 34s. 4d. doz., tax
5s. 9d. doz., i.r.p. 4s. 3d. Elliman's Royal embro-
cation 27s. 6d. doz. tax 4s. 7d. doz. i.r.p. 2s. 3d.

Elliman's athletic rub, 23s. 6d. doz., tax 3s. 11d. doz., i.r.p. 3s. Eire, 4s., 32s. 5d. doz.; 2s. 9d., 26s. 5d. doz.; 2s. 9d., 24s. 9d. doz.

26s. 5d. doz., 2s. 9d., 24s. 9d. doz.
Kay Bros., Ltd., Kay's compound pastilles, 1s. 5d.
 12s. doz., tax 2s. doz., i.r.p. 1s. 7d.

Middlesex Laboratory of Glandular Research, Ltd.,
Malestrin cachets, normal-potency, 13s. 4d. each,
tax 2s. 3d. each, i.r.p. 20s.; high-potency, 20s. each,
tax 2s. 4d. each, i.r.p. 30s. Femestrin cachets.

tax 3s. 4d. each, i.r.p. 3os. remestrin cachets, normal-potency, 13s. 4d. each, tax 2s. 3d. each, i.r.p. 2os.; high-potency, 2os. each; tax 3s. 4d. each, i.r.p. 3os. Prejestrin cachets, normal-potency, 13s. 4d. each, tax 2s. 3d. each, i.r.p. 2os.; high-potency, 2os. each, tax 3s. 4d. each, i.r.p. 3os.

Milner & Coke, Ltd., 40. lemon-flavoured and sweetened seidlitz powders, ordinary strength, 32s. gross, tax one-sixth, i.r.p. 4d.; extra strong, 40s. gross, tax one-sixth, i.r.p. 5d.; double-strength, 48s. gross, tax one-sixth, i.r.p. 6d.

Moore Medicinal Products, Ltd., Brovon bronchial mixture, 2s. 3d., 18s. doz., tax 3s. doz., i.r.p. 2s. 6d. Codella vitamin chocolate, 8s. doz., tax 1s. 4d. doz., i.r.p. 1s.

Pharmaceutical Specialities (May & Baker), Ltd.,
Planacrine brand eufllavine lozenges (new size)
1,000's, 220s. doz., tax 36s. 8d. doz., i.r.p. 30s. 6½d.

Phillips Yeast Products, Ltd., Large size (reintroduced):—Phillips tonic yeast tablets, 5s. 45s. doz. (exempt from tax).

Riddell Products, Ltd., Dritax penicillin inhaler, 28s. 10d., 213s. doz (exempt from tax). Riddocillin inhaler, 20s. 144s. doz. (exempt from tax).

Vick International, Ltd. (Agents: *J. C. Gambles & Co., Ltd.*), Vick inhaler, 12s. doz., tax 2s. doz., i.r.p. 1s. 6d.

Alterations.—(Part 1).—Allcock Products, Ltd.,
Display terms withdrawn.

Allen & Hanburys, Ltd., Acriflex, 2-oz. tube, 14s.

doz., tax 2s. 4d. doz. i.r.p. 1s. 11½d. Cod-liver oil emulsion, Allenburys, one size only, 16-oz., 32s. doz., tax 5s. 4d. doz., i.r.p. 4s. 5½d. Glucose-D, Allenburys, 1-lb., 2s. 2d., 18s. 9d. doz. (exempt from tax). Rutin tablets, 100's, 288s. doz., tax 48s. doz., i.r.p. 34s.

Anti-Bi-San, Ltd. (Agents: *Thos. Christy & Co., Ltd.*).—One doz. Fenestine analgesic tablets invoiced to retailers as 11/12ths doz. as introductory offer in consideration of window or counter display.

Robert Bailey & Son, Ltd.—Owing to manufacturing difficulties, supplies of Zorbo cotton wool and pneumonia jackets temporarily suspended.

Beechams Pills, Ltd., Northern Ireland:—
Beechams pills, penny packets (in 2-doz. cartons)
discontinued. Eire (Nov. 1), Beechams powders,
cards of twenty-four invoiced at 35s. doz. cards,
replacing cards of sixteen.

Bell & Sons, Ltd., George Bell's blood-purifying salts for dogs, thirty powders, 10s. 9d. doz., tax 1s. 9½d. doz., i.r.p. 1s. 6d.

H. W. Carter & Co., Ltd., Ribena blackcurrant
syrup, 12½-oz., 2s. 6d., 26s. 5d. doz.

Duncan, Flockhart & Co., Antiseptic dusting powder, Duncan, 9s. doz., tax 1s. 6d. doz., i.r.p. 1s. 3d.; $\frac{1}{2}$ -lb., 24s. doz., tax 4s. doz., i.r.p. 3s. 4d.; 1-lb., 42s. doz., tax 7s. doz., i.r.p. 5s. 10d. (Prices based on purchase tax at 66 $\frac{2}{3}$ per cent. instead of at 33 $\frac{1}{3}$ per cent. as formerly.)

Evans Medical Supplies, Ltd., Ephregel nasal jelly, 16s. doz., tax 2s. 8d. doz., i.r.p. 2s. 2d. Heprona, 6-oz., 48s. doz., tax 8s. doz., i.r.p. 6s. 6½d. Kalsolac, 30's, 14s. doz., tax 2s. 4d. doz., i.r.p. 1s. 11d.; 68's, 26s. doz., tax 4s. 4d. doz., i.r.p. 3s. 6½d.

Thos. Guest & Co., Ltd., Sure Shield fruit laxatives, 10s. 6d. doz., tax 1s. 9d. doz., i.r.p. 1s. 8d. (3d. size withdrawn).

Himrod Manufacturing Co., Ltd., Temporary prices only: Small consignments of Himrod's asthma cure have reached Britain; the following prices will be included in the protected list:— 4s. 6d., 40s. 6d. doz., tax 6s. 0d. doz., i.r.p. 5s. 1d.

4s. 6d., 4s. 6d. doz., tax 6s. 9d. doz., i.r.p. 5s. 1d.
Hinkman & Forrest, Ltd., Hinkman's asthma
 reliever and cigarettes, 16s. 6d. doz., tax 2s. 9d.
 doz., i.r.p. 2s.; three doz. at 16s. 2d. doz. less 2½
 per cent. for display; six doz. at 15s. 10d. doz. less
 2½ per cent. for display; twelve doz. at 15s. 6d.
 doz. less 2½ per cent. for display. Prices of smoking
 mixture unchanged.

Holly Pax (Distributors: *Fassett & Johnson, Ltd.*), Holly-Pax, packets of twelve 1s. 3d. 11s. 3d. doz.; packets of six (new) 8d., 6s. doz. (exempt from tax).

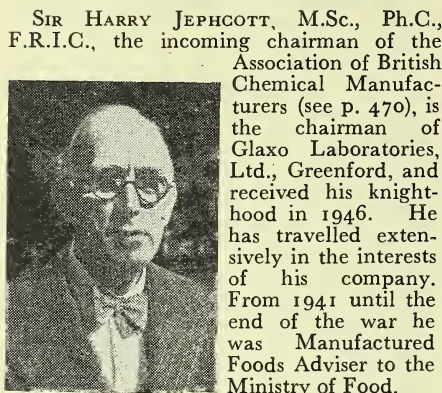
Modern Health Products, Ltd., Natex vegetable soap, 6s. doz., tax 2s. doz., i.r.p. 10½d. Vecon tonic drink, 2s. 6d., 22s. 6d. doz. (exempt from tax).

Pharmaceutical Specialities (May & Baker), Ltd.,
Scuriform lozenges are renamed Planoform lozenges.

St. Andrew Mills, Ltd. (Agents) (for Camelia sanitary towels) *Chappell, Allen & Co., Ltd.*, Entry in protected list amended as follows: Camelia sanitary towels, Standard, loops or tabs, 1s. 7d. 14s. 6d. doz.; size 1 (loops) 1s. 8d., 15s. 8d. doz.; size 2 (loops), 1s. 11d. 18s. doz.; size 3 (oversize) (loops), 2s. 6½d. 23s. 7d. doz. (exempt from tax).

Dr. R. Schiffmann (Agents: *Fassett & Johnson, Ltd.*), Asthmador 38s. 3d. doz., tax 6s. 4½d. doz., i.r.p. 4s. 6½d.

PERSONALITIES



SIR HARRY JEPHCOTT, M.Sc., Ph.C., F.R.I.C., the incoming chairman of the Association of British Chemical Manufacturers (see p. 470), is the chairman of Glaxo Laboratories, Ltd., Greenford, and received his knighthood in 1946. He has travelled extensively in the interests of his company. From 1941 until the end of the war he was Manufactured Foods Adviser to the Ministry of Food.

MR. G. D. JACKSON, M.P.S. (vice-chairman of the Cornish Branch, National Pharmaceutical Union) has been elected to fill a vacancy on St. Austell urban council.

MR. MICHAEL FRANCIS FLYNN, M.P.S.I., Main Street, Rathdowney, Leix, Eire, has been appointed a Peace Commissioner in the county of Leix and counties immediately adjoining.

DR. J. D. HAMILTON, who has retired after forty-five years as medical officer at the Templemore Avenue Dispensary, Belfast, turned to medicine after first qualifying as a pharmaceutical chemist. He was registered as a pharmacist in 1901.

MR. K. E. WHITE, M.P.S., Ripley, Surrey, was the author of a letter published in "The Times" recently protesting against purchase tax being charged on essential drugs and other pharmaceutical preparations, including certain specifics, analgesics, antiseptics, and chemically pure water.

MR. ROBERT WILLIAM DUNN, M.P.S., Bridge Street, Chester, and Mrs. Dunn, celebrated their golden wedding anniversary on October 6. Mr. Dunn qualified as a pharmacist in 1890, and carried on his business in Bridge Street for over thirty-four years. One son, Mr. John Traill Dunn, is manager at the Bridge Street shop. A second is Dr. Robert Dunn, Stoke Mandeville Hospital, Aylesbury.

MR. ROBERT T. SPARGO, Sirsa House, High Street, Cheltenham, on October 3, completed twenty-five years' service with the United Chemists' Association, Ltd.,

Cheltenham. Mr. Spargo was for fifteen years supervisor of the company's travellers. He then lived in Birmingham, but went to Cheltenham about eight years ago to take over the company's druggist sundries department.

C. & D. DISPENSING PRICE LIST

THE following price changes which took place during September should be noted:—

Cost		Due allowance has been made for purchase tax in both cost and dispensing prices	Dispensing price		
d.	per		4 oz. s. d.	1 oz. s. d.	1 dr. s. d.
60	lb.	Acetum cantharidini, B.P.C.			
		S.I.(5) ..	—	0 8	0 2
54	lb.	Acid. ricinoleicum ..	2 0	0 7	0 1
14	oz.	Anthemis exot.	—	2 0	0 3½
220	lb.	Bismuthi carbonas	7 11	2 4	0 4
192	lb.	Bismuthi citras ..	6 10	2 0	0 3½
195	lb.	Bismuthi subnitras ..	7 0	2 1	0 4
66	lb.	Elix. ephedrin. hydrochlor., B.P.C.	2 9	0 9	0 2
38	dr.	Ephedrinæ hydrochlor. P.I. ..	per gr.	0 2	5 7
49	oz.	Ext. anthemidis	—	7 4	1 1
28	oz.	Ext. anthemidis liq. ..	—	4 1	0 7
24	oz.	Ext. cinchonæ ..	—	3 7	0 6
119	oz.	Ext. colchici sicc. S.I.(5) ..	—	—	2 10
38	oz.	Ext. fellis bovini pulv. ..	—	5 7	0 10
35	oz.	Ext. hamamelidis	—	5 2	0 9
77	oz.	Ext. ipecacuanhæ liq. ..	—	11 1	1 10
140	lb.	Lin. belladonnæ meth. ..	4 11	1 4	0 2½
56	oz.	Phenazonum ..	—	8 2	1 2
126	lb.	Phenacetinum ..	4 7	1 3	0 2
11	oz.	Phenol-phthaleinum ..	—	1 8	0 3
86	lb.	Potassii hydroxidum (sticks)	3 1	0 10	0 2
52	lb.	Pulv. bismuthi co. N.F. lb. 6s. 6d.	1 10	0 7	0 1
90	lb.	Terpineol ..	3 3	0 11	0 2
119	oz.	Theophyllina ..	—	—	2 10
109	lb.	Tinct. jalapæ ..	3 10	1 1	0 2

PROPRIETARY ARTICLES TRADE ASSOCIATION

At a meeting of the Council of the Proprietary Articles Trade Association on October 9, the president (Mr. H. G. Middleton) in the chair, Messrs. J. Milner and J. D. Bohn were welcomed on their first attendance as honorary members. On the motion of THE PRESIDENT, it was agreed to send a message of congratulation and good wishes to Mr. N. N. Armitage (a former president of the Association) and Mrs. Armitage on the celebration of their golden wedding.

Congratulations to Lord Mayor

THE PRESIDENT also moved, and the Council unanimously resolved, that a message of congratulation on his election as Lord Mayor of London should be sent to Sir Frederick Wells, chairman of a number of companies which are members of the manufacturers' section of the P.A.T.A.

Price Maintenance

The Council considered the terms of reference of the Resale Price Maintenance Committee appointed by the then President of the Board of Trade (Sir Stafford Cripps). THE PRESIDENT remarked that the Council thought the subject had been adequately explored and reported on by the Restraint of Trade Committee of 1930. Arrangements for submitting written and oral evidence to the Committee were approved, and the secretary was instructed to point out to the secretary of the Committee that the date (October 31) by which it was requested that written evidence should be submitted, would not allow sufficient time for collating the necessary data; he was instructed to ask for an extension of date.

Council Election

Arrangements for the election in December of twelve members of the Council were approved. It was agreed that a vacancy in the retail section occasioned by the resignation of Mr. Milner should not be filled by co-option, but held over until the December election.

Two applications for election to the wholesale section were rejected.

Surplus Stores of Proprietaries

Satisfactory assurances were reported given (arising out of three months' close touch with the headquarters of the Navy, Army and Air Force Institutes, certain companies operating as their agents on the Continent, and the Board of Trade, con-

cerning the disposal in the United Kingdom of large quantities of proprietary articles rendered surplus by the end of the war), that all P.A.T.A. products would be offered first to the appropriate manufacturers. In the event of agreement not being reached, the P.A.T.A. would be asked to arrange for the orderly disposal of the surplus goods.

Quarterly Report

The quarterly report on price maintenance showed that 460 calls and inspections had been carried out by Association's representatives; in seven cases only was there evidence of price cutting. 386 test purchases were made, and five traders, having completed the appropriate agreement, were removed from the stop list. Complaints regarding breaches of P.A.T.A. conditions by co-operative societies had been less numerous.

Presentations

Before proceeding to its formal business, the Council made presentations (unexpected by the recipients) to the secretary (Mr. H. E. Chapman) and to two senior members of the staff (Mr. A. A. Stead and Miss H. E. Hobbs). THE PRESIDENT said that, some little time previously, the Council had become aware that Mr. Chapman had completed twenty-five years' service with the Association; that Miss Hobbs, his senior secretarial assistant, had served them for a similar term; and that Mr. Stead had thirty-five years to his credit. Council members thought that, in their individual capacity, they should acknowledge those long, faithful and adequate services, and it afforded him great pleasure on this occasion to hand cheques to the three officers as tangible expressions of the regard felt for them by the Council. Tributes to the secretary and his colleagues were paid by the vice-presidents, Messrs. E. C. Pearce, N. E. Forster and S. W. Hague, and Messrs. T. Marns and F. Smith, Miss Hobbs and Mr. Stead having expressed appreciation. MR. CHAPMAN recalled how, at the suggestion of Sir William Glyn-Jones, he had, with considerable diffidence, left the editorial office of the "Pharmaceutical Journal" to become assistant secretary to the P.A.T.A. He had now made the Association's affairs his life work and had no regrets for doing so. He thanked the donors for their "generous and personal tribute."

A.B.C.M. ANNUAL MEETING

THE thirty-first annual meeting of members of the Association of British Chemical



Mr. L. P. O'Brien

Manufacturers was held in London on Thursday, October 9. Moving the adoption of the report and accounts for the year ended May 31, 1947, THE CHAIRMAN (Mr. L. P. O'Brien) said the establishment of the first overseas branch office in Bombay was an important event, and when India and Pakistan settle down to develop the industries of their countries, British chemical manufacturers with trading interests in India will have an organisation available through which they can be guided on matters of general policy and through which they can act in unison, and exert more influence collectively, than otherwise could be the case. Despite what they may make for themselves in future, India and Pakistan are likely to be important importing chemical markets for generations to come. The Association was fortunate in having Mr. R. Murdin Drake to guide and support Mr. Shuttleworth in launching the Bombay office on its course.

Control Commission Criticised

"We are still dissatisfied that the Control Commission for Germany has not seen its way to initiate those consultations with British industry which were promised by the Board of Trade over a year ago. . . . We regret that they have not been willing to seek the advice of British chemical industry, which I am sure would have been of great help to them in their endeavours to put Germany—or at least the Western Zones of it—on its feet, while providing adequate security for the future peace of the world. The new level of industry for the Western Zones announced about six weeks ago means that, so far as chemicals are concerned, Germany will be allowed to get back to her 1936 basis of production. We may therefore expect to find her again in due course a powerful competitor in the world's chemical markets, and this," commented the chairman, "at a time when we are asked to still further expand our own export trade.

Since the annual report was written, the Swan Committee on patent legislation has published its final report. We should all study this carefully. One very important proposal which is of great significance to our industry will enable us in future to patent a new chemical compound as such, and not merely its method of preparation, as at present. We have been kept in touch by the Board of Trade with any proposals from the international trade negotiations at Geneva which affected our interests. In particular, difficulties over Britain's import-export balance will necessitate the continued control of imports by the present licensing system, probably for several years. We regret the likelihood that the Dyestuffs Act, which has been of such great service to both the users and makers of dyestuffs (and, I may add, to the country), may have to be repealed because of the Geneva agreements and replaced by a system of Key Industry duties which, though it has been of great benefit to the fine chemical industry, does not possess the advantages and flexibility of the present system of regulating imports of dyestuffs by licensing.

Elementary Facts of Economics

Just at this moment, the air is full of loud voices of those who are beginning to learn the elementary facts of economics. The wastage created by war throughout almost the whole industrial world, and in our own country in particular, was largely overlooked. Before the wastage was made good, or even attempted, industry has had to carry fresh burdens, and encountered many difficulties, which have impeded and made more costly the task of rehabilitation and expansion. Those who had created wealth and prosperity by their initiative, hard work and intelligence, were constantly discouraged and held up as bad examples in society. Many inexperienced persons were put into positions of control from which they began to plan increased expenditure of public money on new schemes based on more and more borrowing, rather than economising in expenditure.

Those of us who have been working long hours for nearly half a century and upwards have been a little puzzled in recent years. We have enjoyed our life's work and thought we had done some good. Certainly, we built up industries which have been able largely to carry this country through, inviolate, to victory after two long periods of total war. Moreover, the

general conditions were not too bad, although there were black spots, and money went a lot further than it does now. Lately we have heard that was bad practice—the shorter hours one works and the more pay one gets (provided one is not “the boss”) the more we should produce and the nearer we should approach to the millenium. The truth is that either policy carried to extreme is bad for the individual and bad for the nation. Now, the inevitable climax is approaching, and the difficulty is to abandon bad theories and practices.

Chemical Export Targets

We in the chemical industry have no idea yet how the chemical export targets set up for us have been built up. We might have been able to offer some advice on that subject but we have elicited that we are to be told about it piecemeal, section by section. The A.B.C.M. and its affiliated associations should consult together on this subject, as our efforts may need to be co-ordinated. Wisely, the President of the Board of Trade has recognised that the higher export and agricultural targets which have been set for other industries imply a greater home demand for chemicals and, broadly speaking, that we in the chemical industry must first meet essential home demands and those of countries which are dependent upon Britain for chemicals in order to supply us in turn with food and other essential commodities, before selling any surplus to other countries. The chemical industry has made, and will continue to make, important increased contributions to our export trade, but export volume is not the test to apply to measure the efforts of such a basic industry supplying raw materials to other industries. Today, there is much evidence in the British chemical industry of extensive and varied schemes, not only to increase the manufacture of existing products by improved methods, but also to manufacture new chemicals.

Fine Chemical Products

In the foregoing, it might seem as though I thought only of that huge and varied side of chemical industry which is the supplier of chemicals which are raw materials and intermediates for the rest of us, but I have not forgotten the “fine” chemical side whose products (numbered in thousands) are necessary for our health, our education, and our research and control laboratories. Probably it is true that fine chemical products come more into the public eye all over the world, and perhaps a special re-

sponsibility rests on our fine chemical manufacturers to maintain a premier position in world markets for their products.

I am now come to the end of my second year of office as your chairman. It has not been an easy period. Many new and difficult problems have had to be tackled and often we have suffered from intense feelings of frustration. But through it all I have received nothing but goodwill and help from every member of the Council and the Association. Without this and the help of the affiliated associations in our recent discussions on relationships with the Government, I would not have been able to do what little I have done. I am indeed grateful, and thank you all most sincerely. In this expression of gratitude I include the staff of the Association who, from the director and joint managers downwards, have worked zealously on your behalf.”

Council Members

The constitution of the Council of the Association for the ensuing year is as follows: *President*, Dr. P. C. C. Isherwood; *Vice-presidents*, Dr. F. H. Carr, Mr. R. Duncafe, Dr. E. V. Evans, Mr. C. A. Hill, Mr. C. F. Merriam, Mr. L. P. O'Brien and Mr. R. G. Perry; *Chairman*, Sir Harry Jephcott; *Vice-chairman*, Sir Frederick Bain; *Treasurer*, Mr. C. E. Carey; *Elected Members of Council*, Messrs. T. R. G. Bennett and A. D. Daysh, Dr. A. E. Everest, Messrs. C. G. Hayman, G. E. Howard, W. M. Inman, W. F. Lutyens, T. D. Morson, D. P. C. Neave, F. G. Pentecost, K. H. Wilson and H. Yeoman; *Co-opted Members*, Mr. D. Spence, Lord Trent, Mr. S. W. Whiffen.

CHEMICAL EXPORTS CONFERENCE

REPRESENTATIVES of the Ministries of Supply and Health and Board of Trade (Raw Materials, Industries and Manufactures and Export Promotion departments) met members of the Association of British Chemical Manufacturers, the Wholesale Drug Trade Association and the Pharmaceutical Export Group, the Proprietary Association of Great Britain and the Proprietary Remedies Export Group, and the British Animal Medicine Makers' and Allied Traders' Association on October 9. The appropriate trade unions were also represented. The meeting recognised that ensuring health supplies for the community was a first charge on the output of the industry, and discussed the difficulties of expanding export trade.

PHARMACEUTICAL SOCIETY OF NORTHERN IRELAND

Twenty-Second Annual Meeting

THE twenty-second annual meeting of the Pharmaceutical Society of Northern Ireland was held in Belfast on October 6. The chair was taken by MR. JOHN MCGREGOR (vice-president), who declared elected the following three retiring members of the Council who had been renominated without opposition: Messrs. James Glendinning, H. F. Moore and James McDowell. He announced that the fourth vacancy would be filled by co-option at the next meeting of the Council.

The VICE-PRESIDENT expressed regret at the retirement of Mr. J. E. Connor, J.P., a former president of the Society and the last of those members who had served on the Council since its inception.

The Society's Register

The memorandum on pharmacy administration for 1946 showed that pharmaceutical chemists on the register numbered 818 (against 1,097 in 1945); superintendents of bodies corporate, eighty-four; chemists and druggists, one; registered druggists, thirty-eight (against 119); superintendents of bodies corporate (registered druggists), three; certified assistants, one; and apprentices, 385 (against 659). During the year forty-two apprentices qualified by examinations as pharmaceutical chemists. The number of licences issued to pharmaceutical chemists was 512 and to registered druggists twenty-seven. It was reported that the greatly reduced number of persons registered during the year was due to the failure of chemists to pay the new retention fee. The memorandum noted that there were 251 agricultural and horticultural poisons licences issued during the year (against 180 in 1945).

THE VICE-PRESIDENT referred to the great loss sustained by the Society through the deaths of the president (Mr. J. W. Gray, J.P.), and of Dr. S. E. A. Acheson, who had been a member of the Council from its inception. He also spoke with regret of the deaths of Mr. John Grimes, a former member of the Council, and of a number of other members of the Society.

The Pharmacy and Poisons Act, he said, had passed its teething troubles. It was realised that the smooth working of the Act, especially as it affected Fourth Schedule poisons, depended on the co-

operation of the medical profession, and all doctors in Northern Ireland had accordingly been informed by circular of their obligations when ordering and prescribing such drugs. It had been reported that certain authorised sellers of poisons were not clear as to the law relating to the sale of strychnine. The president pointed out that strychnine could be sold only as an ingredient in medicine, or on a permit issued by the County Agricultural Executive Officer, for the destruction of foxes. MR. MCGREGOR said that publication of an explanatory booklet on the working of the Act, which had been held up by the illness of the inspector (Mr. Patterson), was expected shortly, and that the Society's Calendar should also be ready by Christmas.

Health Services Bill

Dealing with the new Health Services Bill, he said there were points on which the Society were asking for explanations and others on which tightening-up was required. A number of the provisions which most concerned pharmacists would be by regulation. He estimated that private dispensing would drop by about 25 per cent. and in a few years, perhaps, would disappear, while the number of National Health Insurance prescriptions would increase two- or threefold. The negotiating committee had not lost sight of the question of the dispensing fee for the increased work, and was of the opinion that the new Drug Pricing Bureau would prove an advantage. The Society was also satisfied that chemists could do all the dispensing necessary and that dispensing in health centres would not be required.

Mr. McGregor said it had not been possible to hold post-graduate courses during the year because of the lack of suitable accommodation but it was hoped that one would be arranged for the coming year. He congratulated Mr. Proctor, Armagh, on having gained the Society's gold medal at the June examination and said the Society was always proud that its graduates could hold their own in pharmacy in any part of the world. The standard was as high as if not higher than in Great Britain.

It was announced that, with the object of bringing members into closer touch with one another, Mr. McGregor would attend

at the Society's headquarters on November 10, at 7.30 p.m., when he hoped to be able to discuss current matters.

Financial Statement

The financial statement presented by Mr. H. H. COWZER (treasurer), showed income at £3,405 (against £3,128 for 1945) and expenditure at £2,853 (against £2,546), leaving a surplus of £452. Assets were shown as £17,567 including £12,563 in investments and cash. The adoption of the financial statement was moved by Mr. FRED STOREY, who congratulated both the vice-president and the treasurer on their work. It would be a job for the future, he said, to decide what should be done with the Society's large assets. The Regulations under the new Bill would have to be carefully watched but he thought that the Minister of Health would take a reasonable view of any representations made to him. Mr. H. W. GAMBLE seconded and the motion was passed.

Mr. McDOWELL expressed thanks on behalf of himself and of Messrs. Moore and Glendinning for their unopposed return to the Council and said that the remaining vacancy was one that would be filled by a country member.

When the meeting was thrown open for questions, Mr. J. MCGIVERN asked whether members could not be circularised before the date for nominations for the Council and whether the meetings of the Council could not be held at a time suitable to employees and others who, in the event of their being elected, would find difficulty in being present in the afternoons. He pointed out that 45 per cent. of the members of the Society were not proprietors.

The VICE-PRESIDENT replied that Mr. McGivern's first point could be considered although the date of the election was fixed by statute and was the same every year. The time of meeting was a matter for the Council, which had to take into consideration the convenience of country members.

Mr. MCGIVERN, in a reference to the Society's funds, also asked whether some form of insurance for members could not be established, and Mr. MCEWAN suggested that it was unnecessary to make such a large profit from examination fees. The reply from the chair was that the money in the possession of the Society could be spent only on education. The examination fees were in keeping with those of other bodies and additional expenses would be

incurred under the new syllabus. In answer to a question from Mr. H. CROSSIN, the VICE-PRESIDENT said the price of the Society's register would be reviewed, and that the Society's new calendar would cost 12s. 6d.

Mr. J. GASS drew attention to the position of students from outside Belfast who attended the Belfast College of Technology and were charged £5 more than those from the city. No other classes were available for them and he asked whether the Society could not assist. The SECRETARY pointed out that the Society's funds belonged to all the members and that it was doubtful whether money could be spent in assisting the country students in this case. Mr. STOREY intervened to suggest that if there was any particular case of hardship an appeal could be made to the Benevolent Fund. On the proposal of Mr. GAMBLE, it was decided that the matter might be raised at a meeting of the Council, with a view to an approach to Belfast Corporation.

After the VICE-PRESIDENT had reported on his visit to the British Pharmaceutical Conference at Torquay, a discussion took place on education and other subjects.

On the motion of Mr. ABERNETHY, a vote of thanks was passed to Mr. McGregor.

IRISH CHEMISTS' GOLF

The Irish Chemists' Golfing Society has held two outings recently. The first was at Curragh, co. Kildare, when competitions were held for prizes presented by Proprietaries (Eire), Ltd., and by Harwood Bros. The winners were: *Strokes*: Messrs. J. F. Walsh (9), 69, and W. R. Such (18) 73; *bogey competition*: Messrs. J. Fitzgibbon (7) 1 down, and F. J. Roche (7) 1 down. *Nine-hole Scotch foursomes*: (1) Messrs. S. J. Savage and A. W. Hughes, with 34; (2) Messrs. J. F. Walsh and P. Foley, with 35. The prizes were presented later on behalf of both the donors by Mr. Percy Harwood, who was accompanied by Messrs. G. Stuart and J. Plaice (Proprietaries (Eire), Ltd.). The second outing was held at Elm Park, co. Dublin, on September 24, for prizes presented by Kodak, Ltd. There was keen competition and the winners were: *Eighteen-holes strokes*: (1) Mr. B. R. Smith (6) 71; (2) Mr. W. P. Mullen (20) 72, and Mr. J. Murray (13) 72; *bogey competition*: (1) Mr. F. J. Roche (7) 3 down; (2) Mr. J. P. Holland (20) 5 down. Prizes were presented to the winners by Mr. J. Stafford (Kodak, Ltd.).



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VOL. CXLVIII OCTOBER 18, 1947 NO. 3530

A Dangerous Decision

In the course of his speech to members at the annual meeting of the Association of British Chemical Manufacturers (p. 470), the chairman, Mr. L. P. O'Brien, strongly criticised the decision of the Control Commission in Occupied Germany to permit the German chemical industry to produce pharmaceutical chemicals and allied products up to the level of the industry's 1936 output and to export freely to all markets. Bitter complaint was also made that the Board of Trade had ignored the representations of the manufacturers on the control of chemical production in Germany; that the Department had failed to carry out its promise, given over a year ago, to consult with the British industry on policy, and that teams representing the British pharmaceutical and dyestuffs industries had been ready to go to Germany to confer with the authorities but had not been allowed to travel. In his speech at the 1946 annual meeting the chairman advised members that the Association had submitted a memorandum on the post-war treatment of the German chemical industry and at the request of the Control Commission had set up an advisory panel to assist the Control in its work. The panel had never been consulted and nothing further had been heard of the memorandum.

In deciding to permit the German chemical industry to re-establish itself on the basis of its 1936 production and world trade, the Control Commission has, it seems to us, allowed the economic plight of Germany today and the consequent need

for her industrial re-establishment to override all other considerations, such as the future of world peace and the effects of renewed German competition. How far this dangerous decision was influenced by the merger of the U.S. and U.K. zones and subsequent dual control can only be surmised. Experience of the last two wars has proved that Germany's chemical industry was her greatest asset in her peace-time world trade activities and in her war potential. This was derived, not so much from the colossal plant and equipment which the industry possessed and which were turned to many war uses, as from the army of skilled scientific and technical staffs which the industry supported and which enabled Germany to invent and manufacture enormous quantities of new types of machines of war and equipment. At the end of the second world war it was agreed that the German chemical industry should be rigidly restricted in its activities and its technical and research staffs rigorously controlled. Unfortunately, this sound decision has been brushed aside because of the parlous economic condition of Germany, a state of affairs for which she has herself to blame.

This "soft" decision of the dual control in Germany should be revised, or it might develop into the first step in the re-establishment by Germany of her war machine. There are many other industries devoid of war potential which could have provided the basis for improving the country's economic position. The chemical industry should, in the light of past experience, be restricted to a capacity sufficient to meet domestic requirements, and German scientific and research activities should likewise be rigorously controlled. Or have we already forgotten the lessons of 1914 and 1939?

Mercury Ointment and Ointment of Mercury

THE Lancashire county analyst, in his recently published report for 1946 (see p. 462) draws attention to the fact that the B.P., 1932, preparation Unguentum Hydrargyri (ointment of mercury; synonym, mercury ointment) is required to contain 30 per cent. of mercury, while the

B.P.C., 1934, Unguentum Mercuriale (mercurial ointment; synonyms, unguentum hydrargyri mite, blue ointment, trooper's ointment) is a product containing 10 per cent. of mercury. The analyst next refers to changes of nomenclature effected in the Fourth Addendum to the B.P., 1932. The Addendum includes two ointments, one containing 30 per cent. and the other 10 per cent. of mercury. The 30 per cent. ointment was again given the title Unguentum Hydrargyri (ointment of mercury) while the 10 per cent. ointment was entitled Unguentum Hydrargyri Dilutum (dilute ointment of mercury). Neither monograph included any synonyms, but beneath the monograph for the dilute ointment appeared the following note:—

"When 'Mercury Ointment,' 'Mercurial Ointment,' or 'Blue Ointment' is prescribed or demanded, Dilute Ointment of Mercury shall be dispensed or supplied, unless, on inquiry, it is ascertained that Ointment of Mercury is required."

Doubt in Pharmacists' Minds

During 1946, representatives of the county analyst purchased from different pharmacists in the area six samples which were asked for as "Mercury Ointment." Two of the six samples were correctly supplied (i.e., they were the 10 per cent. ointment), but three others proved to be the 30 per cent. ointment. (An error in the sixth sample did not arise from ignorance of the Fourth Addendum note.) The report comments "There is still a certain amount of doubt in the minds of some pharmacists as to which ointment should be supplied when 'Mercury Ointment' is demanded." It is possibly true, as the analyst claims, that the footnote to the Fourth Addendum monograph is quite clear, but a situation in which Mercury Ointment is not necessarily the same thing as Ointment of Mercury cannot be regarded as satisfactory. Still less can it meet with approval that a title may mean one thing before a customer is questioned and another, perhaps, afterwards. The purpose of the footnote, which is, no doubt, to ensure that the stronger ointment (used normally for the inunction treatment of syphilis) is not supplied when the weaker ointment (used normally for destroying

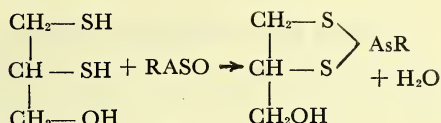
lice) is required, may be commended, but in practice it has replaced one difficulty with another. In former days, pharmacists were under threat of prosecution if they supplied diluted mercury ointment (knowing it to be what the patient required) when "Mercury Ointment" was demanded. Having been rescued from that predicament, they are now exposed, apparently, to virtually the opposite risk. Whatever nomenclature is adopted, some questioning of patient or customer may always be necessary. The fact that a new pharmacopœia is in course of preparation, however, presents an opportunity to decide upon new titles that will simultaneously protect the uninformed patient and make quite unequivocal the position of the supplying pharmacist.

BAL Passes Its Trials

A SHORT report, summarising the findings of a clinical trial carried out under the auspices of the Medical Research Council on the therapeutic value of BAL (British anti-lewisite or 2, 3-dimercaptopropanol) has been published recently ("British Medical Journal," October 4, p. 520, and "Lancet," October 4, p. 497). (A fuller report is to be published shortly in book form). Forty-four cases of arsenical dermatitis were treated with deep intramuscular injections of 5 per cent. BAL in arachis oil and benzyl benzoate. The solution was prepared in nitrogen-filled ampoules, sterilised by heating for one hour at 170° C. Four injections of 2 mls of 5 per cent. solution were given on the first day, two injections of 2 mls on the second, third and fourth days, and one injection of 2 mls on the fifth and sixth days. Thirty-one of the forty-four cases studied were benefited by the treatment, twenty-three of them strikingly so, the average time from the first injection to the time when healing was complete or nearly complete being twenty-one days. The report concludes that BAL therapy is of definite value in the treatment of arsenical dermatitis. The minimal intramuscular dose which caused toxic reactions in man was between 3 and 5 mgm. per kilo body-weight. The report suggests that care should be exercised in the administration

BAL to patients with impaired liver function, and that BAL is not generally indicated in the treatment of post-arsphenamine hepatitis.

Pure BAL is described as a colourless oil, readily soluble in fat solvents and about 6 per cent. soluble in water. Its power to reverse the tissue damage caused by arsenicals depends on its ability to form relatively stable ring compounds with arsenoxides, thereby diminishing the reaction of the arsenical with the tissues and increasing its urinary excretion from the system:



BAL has been manufactured up to the present time by the Ministry of Supply and distributed only through the Medical Research Council. The value of the compound is now considered established, and the Ministry is arranging for the preparation and issue of ampoules of BAL by commercial undertakings from material supplied by the Ministry.

EXAMINATION RESULTS

The following satisfied the examiners in the Chemist and Druggist Qualifying examination of the Pharmaceutical Society, held in England and Wales in October:—

Aspden, Leslie Edward, Palmers Green
Blandford, Jean Mabel, Wolverhampton
Bowe, Peter, Bolton
Bruce, Walter Hayward, Addlestone
Brunton, Alexander, Paisley
Caller, Abraham Leon, Newport
Clarke, Marjorie, Stockport
Crabtree, John, Burnley
Davies, Doreen Stewart, Uxbridge
Davison, Joyce Mary, Wollaston
Dixon, Edwin William, Hednesford
French, Basil, Ashton-in-Makerfield
Goldhill, Maurice, Mansfield
Gravell, William Wynne, Kidwelly
Green, David, Burley
Griffiths, Thomas Geler, Gorseinon
Harding, Harold Perry, Bridgwater
Harley, Mary Christie, Sheffield
Harris, Peter George, Cranleigh
Hiscox, Rosalie, Llanharan
Hobbs, Frances Margaret, Leicester
Jarmin, Reginald Henry, Southampton
Jones, Jessie, Ashton-under-Lyne
Kendrick, Arthur, Preston
Kitchen, Richard Roy Cotton, Plymouth
Lamb, Reginald, Barrow-in-Furness
Little, Ernest, Liverpool
Llewellyn, Robert, Stoke-on-Trent
Lloyd-James, George Darrell, Loughborough
Lobley, Percy Newsome, Leeds
McKenna, James Francis, Liverpool
March, Mary Elizabeth, Burnham-on-Sea
Martin, Francis James Frederick John, Plymouth

Martin, William George John, Portsmouth
Mitchell, James Christopher, Inverarie
Mitchell, Richard Islwyn, Pontywaun
Neville, Margaret, Llandudno
Oldham, Peggy Pauline, Chandlers Ford
Owen, Tom Ellis, Caerphilly
Parry, Vincent Charles, Aberfan.
Pearlman, Percy, Leeds
Pettman, Monica Mary, New Malden
Piper, Richard Paul, St. Austell
Porter, Gordon Scott, Birmingham
Powell, Ira Frederick, Merthyr Vale
Price, Philip George Ivor, Newport, Mon
Rabbitt, Frederick Henry, Alfreton
Rees, John Glanville, Treorchy
Sandham, Robert George, Uttoxeter
Sharp, Douglas Leon, Brighton
Shaw, Kathleen Mary, Hulme, Manchester
Simpson, Frank Knighton, Tettenhall
Smith, Ronald Neville, Hindley
Spinner, Mary Elizabeth, Chelmsford
Stott, Doreen Mary, Purbrook
Taylor, John, Aberdeen
Thomas, Beryl Elizabeth, Fforestfach
Thomas, Florence Hilda, Newport, Mons
Turner, Sheila Margaret, Yardley
Urquhart, Alick Davies, Bridgend
Vose, John Edward, Streatham
Vowles, Betty Winifred, Wells
Walker, Edward William, London, S.E.5
Walker, Joan, Sheffield
Watkins, David John, Swansea
Welby, Frances Helen Kathleen, Birmingham
Welch, Norman George, Tunbridge Wells
West, Jean Winifred, Nottingham
Widdas, David Allenby, Bishop Auckland
Williams, Irona Yvonne, Gorseinon
Wilson, John Millen, Grantham

JUBILEE BONUS FOR "FIRST-CLASS RISKS"

TWENTY-FIVE years ago chemists were acknowledged by insurance companies to be a "first-class risk," but the title was an empty honour, with no pecuniary advantage. The insurance experts regarded pharmacists as part of the profitable "swings" to compensate them for less profitable "roundabouts" in other branches of retail trade. Consequently they could not be persuaded to reduce chemists' premiums. The National Pharmaceutical Union decided that, since no satisfaction could be obtained from the established commercial insurance companies, a new company—a chemists' own insurance company—should be formed to retain for pharmacists the advantages they were creating for others through being less costly to insure. So the Chemists' Mutual Insurance Co., Ltd., was set up in 1922. From the first it proved an outstanding success, demonstrating how correctly its founders had weighed up the situation.

Advantages Passed on to Pharmacists

C.M.I. gives advantages to pharmacists which they can obtain nowhere else. For example, premiums on all insurances effected directly by the company are 20 per cent. lower than those demanded by the "tariff" companies. Periodically, too, there are bonus distributions, of which an example is the 10 per cent. bonus recently declared to mark the company's Silver Jubilee. Under this offer, one-tenth is being deducted from all premiums (renewals as well as new business) between October 1, 1947, and September 30, 1948. Since the company undertakes direct insurances against fire, burglary, loss of profits, workmen's compensation claims, glass breakage, riot and civil commotion, storm, flood and tempest, and other risks, it will be appreciated that the saving to a policy-holder can be a very substantial item. The proud claim of Chemists' Mutual Insurance, in fact, is that one of its "combined" policies, plus a glass-breakage insurance, plus membership of the N.P.U., gives "complete protection to the chemist in business."

In one respect C.M.I. differs in constitution from the parent body. Membership in it is not confined to proprietor pharmacists, but open to anyone who has passed the Qualifying examination. To a young pharmacist recently qualified, the knowledge that here is a way in which he can save money on his insurances may make a

vast difference to his outlook for the future, particularly if he has the intention of one day opening his own business; and it is well worth his while to write in for information before taking out a policy. Information is given about any form of insurance. As the company acts as agent for most of the leading offices, it is in a position to arrange policies (often at preferential rates) on classes of insurance which it does not itself undertake.

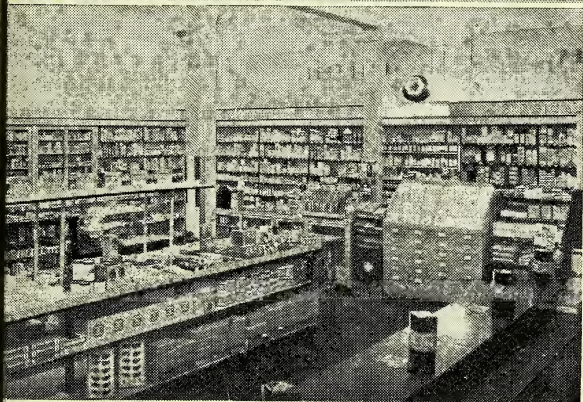
Personalities of C.M.I.

The guiding hand at the helm of C.M.I. has been that of the secretary (Mr. G. A. Mallinson) whose knowledge and experience in this field is probably unique. The company is also fortunate in that, during the whole period of its existence, the detailed work has been (apart from a period of absence due to war service) in the hands of the same managing clerk, who is the person with whom the inquirer normally comes into contact. Some of the policy-holders may be surprised to be told that he is Mr. W. R. S. Clark and not, as they have supposed, "Mr. Williams." The answer is a variety of dual personality that has nothing to do with schizophrenia or a Jekyll-and-Hyde phenomenon. Mr. Clark came to the N.P.U. from the Proprietary Articles Trade Association (with which the Chemists' Defence Association was at that time associated) six months after the establishment of the proprietor pharmacists' organisation. At that time there was already a Mr. Clark on the staff; to avoid confusion Mr. William R. S. Clark was rechristened Williams, and under that name he has continued to masquerade, or at least to be addressed, though the original need for a disguise has long since disappeared. Whether as Mr. Clark or as Mr. Williams, however, he is equally ready to give that service to pharmacists which, to the C.M.I., as to the N.P.U., is a principle of existence.

The directors (the Executive Committee of the N.P.U.) are agreed that the immensely strong position of C.M.I. today makes it impregnable, not merely for a second twenty-five years but, if need be, for two hundred. Non-members whose interest has been aroused by this brief account of the Silver Jubilee of the company, may obtain from the N.P.U. headquarters a copy of a special anniversary booklet. This encloses a postcard which makes it easy to write for proposal forms.

A PHARMACY AT VANCOUVER

The proprietor of the Seaforth Pharmacy, Cornwall Street, Vancouver, Canada, in a letter recently to a friend in Britain, writes: "We finally got the new shop finished and I moved in on December 17, 1946. We closed up the old shop at ten that night and opened up the new one at 9 a.m. the following morning. The new shop has a 32 ft. frontage and length of 57 ft. The shop with its windows takes up the whole of the frontage and 36 ft. of the return. The dispensary is 32 ft. x 8 ft., and the warehouse farther back is 32 ft. x 10 ft. The shop is illuminated by means of six fluorescent units and one incandescent spotlight. The window lighting consists of two fluorescent lamps and two spot lamps, and the dispensary has one fluorestube. The floor covering is of asbestos tile. A glass window 2 ft. x 5 ft. gives out from the dispensary into the shop. An illuminated clock and prescription sign are kept alight at all times. In pricing prescriptions, we usually double the cost of the goods and add a dispensing fee of 25 or 50 cents, according to time taken."



SCIENCE SESSIONS

(Continued from THE CHEMIST AND DRUGGIST, October 11, p. 447)

Activities of Three Anaesthetics

By G. F. SOMERS AND N. D. EDGE

[ABSTRACT]

INTRACUTANEOUS wheal methods of biological tests on guinea-pigs showed that amethocaine and cinchocaine hydrochlorides have identical activities, each being twenty-four times as active as procaine. The therapeutic indices for guinea-pigs were found to be remarkably high; procaine was the "safest" compound, while amethocaine was safer than cinchocaine for guinea-pigs. From the LD₅₀ in mice and ED₅₀ in guinea-pigs, amethocaine and cinchocaine appear to be safer for human beings than procaine, but caution is needed in transferring to man the value of a therapeutic index determined on other species. The addition of adrenaline hydrochloride increased the activity and reduced the toxicity of amethocaine.

Discussion

MR. P. A. NASMYTH, London, suggested that different figures might be obtained when the anaesthetics were administered by different routes. He criticised as being loose the statement that adrenaline "reduces" the toxicity of anaesthetics.

MR. T. D. WHITTET said that the paper was important to hospital pharmacists who were often asked the difference in strength between various anaesthetics. He suggested that the method could be extended to a comparison of mixtures of procaine and amethocaine and of procaine and cinchocaine, and wondered if there was any synergism between the anaesthetics in these two solutions. Could the method be applied to comparing the effect of ordinary solutions and buffered and alkalisied solutions, or to oily solutions, of anaesthetics? Some anaesthetists maintained that local anaesthetics were most effective in alkalisied or buffered solutions, but that seemed to be a contradiction of the popularity of injection of procaine and lactic acid, buffered to an acid pH, used for the treatment of arthritis.

DR. K. BULLOCK asked if other methods had been tried and suggested that animal methods of comparing the activity of local anaesthetics might be misleading, as the psychological factor had also to be taken into consideration.

DR. G. E. FOSTER asked how the method of pricking was controlled, and suggested that the depth of the prick might have an effect on the final result. He asked if the authors had considered concentrating an amount of light into a spot on the animal's skin, and in this way causing a controlled burn-injury.

MR. A. R. G. CHAMINGS said the statement that amethocaine and cinchocaine were twenty-four times as effective as procaine was wrong, and he called for the establishment of a therapeutic index. The author's method measured only the length of action, but not the depth of anaesthesia, which was an important factor. The paper brought up wider issues, he suggested, concerning what the real action of a local anaesthetic was, and he quoted French workers who had obtained local anaesthesia by injecting distilled water.

DR. BULLOCK said that in his experience it had been impossible to compare the efficiency of anaesthetics by observations on human beings. In work which he had undertaken in this field, diametrically opposite findings were returned by his dental colleagues after trials with several hundred patients. MR. T. D. WHITTET added that sodium and potassium bromides tried as local anaesthetics in Charing Cross Hospital had proved to be less satisfactory than anaesthetics usually employed.

MR. SOMERS, replying, said that the mode of administration definitely influenced the effect of the anaesthetic. This was probably connected with the penetration of mucous membranes or nerve sheaths. It was true that adrenaline lowered the toxicity of the anaesthetic, for the L.D. 50 was higher. To Mr. Whittet he said the method could be applied to any solution so long as comparison was made with a standard. In human beings anaesthetics were more active in alkaline solution.

The method of pricking was controlled adequately by being carried out by one person. It was not necessary to draw blood and the effect of the prick was standardised by first applying the sharp instrument within the anaesthetised area and with the same force. An automatic recorder had not been used; the animals were held for the test, and the tests had been carried out at the same time each day.

Solutions of Kiton Green

By T. D. WHITTET

[ABSTRACT]

SOLUTIONS of kiton green have practically no bacteriostatic action against a number of common pathogenic organisms and, therefore, their sterility cannot be ensured by Tyndallisation when they are contaminated with resistant sporing organisms. Autoclaving at 115° C. for thirty minutes appears to have no deleterious effect on solutions of kiton green and does not increase their toxicity. (From the Pharmaceutical Department, Charing Cross Hospital, London.)

Discussion

MR. G. F. SOMERS, London, suggested that the reason for kiton green not staining nerves might be that it was insoluble in the lipid layer and nerves. He had used kiton green in investigating the time taken for solutions injected subcutaneously to disperse. Was there any evidence of kidney damage caused by the dye?

DR. I. MICHAELS, London, warned against concluding from theoretical considerations that similarity in chemical structure meant necessarily similarity in bactericidal action. The author should have supported the statement of "heavy contamination" with the number of contaminating organisms, and should have given details about the sterility tests and an LD₅₀ figure.

MR. WHITTET, replying to Mr. Somers, said that Sarsby had found that kiton green stained the damaged retina, and it was possible that the intact retina reduced the dye to the leuco-base. The possibility of kidney damage by kiton green had not been investigated specifically. To Dr. Michaels he said that in the sterility tests subcultures had been made to obtain adequate dilution of the dye.

Montmorillonite Content of Fullers' Earth

By WILFRED SMITH

[ABSTRACT]

A METHOD of differentiating between fullers' earth and other types of earth, such as kaolin, by means of base-exchange capacity is given. Variables such as temperature and times of reaction and stirring, pH controlled washing, in an original method suggested by the Fullers' Earth Union, were investigated, and the method was modified to one given in detail in the paper.

Discussion

THE CHAIRMAN said that although the work was outside the normal sphere of the British Pharmaceutical Conference, it was useful to know what one was handling in the form of fullers' earth. DR. C. H. HAMPSHIRE asked how far the results could be related to the uses of the material. DR. N. EVERS, replying on behalf of the author, who was absent, said that he could not say if there was a relation between the figures given and the use, and that the use of the material was possibly connected with the physical structure.

Iodine in Chiniofon and Other Iodocompounds

By A. D. POWELL and E. A. TAYLOR

[ABSTRACT]

THE proposed method for the determination of iodine in various iodocompounds depends on the reduction of the compound with nascent hydrogen from zinc and dilute sulphuric acid, when all the iodine present is obtained in the form of a simple iodide. The iodide formed is titrated with silver nitrate. Advantages over ignition methods are rapidity, simplicity and greater accuracy. The method eliminates the risk of loss of iodine when using the ignition method, particularly as applied to chiniofon.

Discussion

DR. G. E. FOSTER, Dartford, said that his own experience with the analysis of chiniofon, which went back to 1928, was contrary to the authors'. There was "nothing to beat the Carius method," and he felt that the authors' figures hardly did justice to the method, which was a method which required experience to carry out.

The authors' method was subject to serious criticism. In the last stages of iodinating a body, bleaching powder was added at a controlled rate to release iodine from hydriodic acid formed in the reaction, for further iodination. The authors' method would estimate total halogen, chlorine as well as iodine. There might also be a loss of iodine when oxidising with bromine.

MR. E. F. HERSANT, London, said that Mr. Powell had been critical of ignition methods, but heating with sodium carbonate was not the same as true ignition. In America, however, a mixture of sodium and potassium carbonates was invariably used. The presence of carbonaceous matter, some workers thought, prevented the escape of the substances being determined.

Results obtained by the authors' method were "out" when compared with those obtained by other methods in a series of trial experiments he had done. He criticised the use of 150 mil graduated flasks and appealed to authors to keep to the volumetric sizes normally stocked. Had the authors tried the zinc and acetic method of assay?

MR. POWELL, replying to Dr. Foster, said that the fusion process might give results normally above those quoted, and that the results had been obtained from determinations on commercial samples. He agreed that there might be a loss on oxidation with bromine. The fact that chlorine was estimated in addition to bromine had not been overlooked, and attempts were being made at modifying the method. To Dr. Hersant he said that the fusion method described in the paper followed the official method. The U.S.P. XIII had given up the fusion method of estimation for chiniofon.

Variations in Hand-made Pills

BY H. DAVIS AND D. C. GARRATT

[ABSTRACT]

THE paper is the outcome of a legal action during which examinations of hand-made pills of sodium thiocyanate showed wide variations.

If standardisation of official pills is introduced, a knowledge of the magnitude of variations likely to occur in extemporaneous preparation, where the size of the batches may be small, is desirable so that the tolerance can be made sufficiently wide to allow for these variations when reasonable skill and care have been exercised in manufacture. In our opinion this widening of tolerance to allow for hand-made pills is necessary to protect the retail pharmacist from possible action by the Local Authorities under the appropriate Acts.

Variations in pills may arise from: (a) Differences in size caused by uneven diameter of the pipe and inaccuracies in cutting; (b) uneven distribution of medicament and losses during preparation and cutting of the pill mass.

Our results give an idea of the order of accuracy of pills made in the orthodox pharmaceutical manner. First, twelve workers of good pharmaceutical skill made batches of 20-25 pills of various types which were weighed individually. The coefficients of variation (i.e., the standard deviation divided by the mean and calculated as a percentage) were from 2.8 to 8.6.

Nine batches, each of twenty-four pills of exsiccated ferrous sulphate, were made and examined for weight and content of individual pills.

From the results we have shown statistically that a variation in weight of up to 17 per cent. (i.e., 2 x coefficient of variation in which some 96 per cent. of the pill weights will fall) occurred in hand-made pills prepared by skilled pharmacists, also a variation of 5 per cent. in distribution of medicament and a manipulative loss of 8 per cent. We have reached the conclusion that a variation from the mean ± 15 per cent. must be allowed in pill size to which must be added a ± 3 per cent. allowance for uneven distribution, a 5 per cent. allowance for manipulative loss and a further allowance for purity of the medicament. A final general tolerance of ± 18 per cent. to -25 per cent. is, therefore, not unreasonable.

Discussion

PROFESSOR H. BERRY said that he was concerned about possible large differences in the rates of disintegration of pills in the alimentary tract and hoped that pills would be allowed to go "down to their grave in honour." He appealed to chemists to urge doctors to prescribe tablets in place of pills wherever possible.

DR. G. E. FOSTER said that the ferrous sulphate used could have oxidised in the pills and so introduced inaccuracies in the results.

MR. T. D. WHITTET also appealed for the use of tablets in place of pills. MR. STEVENS, London, asked if the pills had been sampled in the order in which they occurred on the machine.

DR. GARRETT, replying, recommended that there should be a difference in tolerance allowable for difference in pill size. A few pills were left out fairly from the statistical considerations, and these pills were probably those at the end of the pipe.

Bactericidal Activity of Ethylene Glycol against *Bacterium Coli*

BY H. BERRY AND I. MICHAELS

[ABSTRACT]

PART I

THE accuracy of a standardised technique, when applied to the evaluation of bactericidal activity using modern statistical analytical methods, was investigated. ethylene glycol and the homologous series of its monoalkyl ethers from methyl to hexyl being the test compounds. The apparatus

and materials employed are described and illustrated in the authors' paper. Experimental errors and the suitability of experimental conditions were estimated. Freeze-dried *B. coli* was taken as the source of material for producing standardised cultures, and a standardised technique, based on the capillary-pipette roll-tube combination for counting viable organisms, is outlined. An all-glass automatic pipette for the aseptic, rapid and accurate distribution of diluent is described.

PART II

A STUDY has been made of the disinfecting action of concentrations of ethylene glycol mono-hexyl ether on *Bact. coli*. The character of the survivor-time curve has been shown to be asymmetrically sigmoid and has indicated that most of the organisms were killed in the first few units of time. The influence of the following factors on the shape of the curve has been investigated: Concentration of disinfectant, temperature, the initial number of organisms and the age of the organisms. By increasing the severity of the lethal conditions the sigmoid shape of the curve changed gradually to the form of a curve convex to the axes, which at one stage during the transition possessed logarithmic characteristics. Evidence for the analogy between the disinfection process and a first order chemical reaction has been presented, together with examples illustrating the non-logarithmic order of death of bacteria. (From the department of pharmaceuticals, College of the Pharmaceutical Society, University of London.)

Discussion

THE CHAIRMAN, introducing the discussion, said that he was a little puzzled over whether the correct answer could be obtained by a statistical analysis of selected results.

PROFESSOR H. BERRY, London, said that a statistical method was necessary when comparing one disinfectant with another, and particularly when examining a homologous series of disinfectants. The method could not be applied to strains of bacteria which clumped, or to anionic, cationic, or other disinfectants which caused clumping of bacteria.

DR. F. HARTLEY said the paper presented what amounted to a kinetic study of the course of the bactericide's action. Before one could abide rightly by the results it would be necessary to prove the technique, of which the authors were the masters. A different picture would prob-

ably be obtained with different concentrations. The work had not gone far enough; it did not prove or disprove the exponential way of evaluation. So far as it had gone, however, the results fell into two classes—those conducted in a high concentration and those in a low concentration of bactericide. A possible explanation of the results was heterogeneous catalyses, the system being two-phase.

He advised workers not to lose perspective of the problem: it was necessary to know how as well as when the body died.

DR. G. E. FOSTER, Dartford, said he was puzzled by the exclusion of results which did not fit theory.

DR. C. H. HAMPSHIRE, London, said that he recognised that the paper was of fundamental value and that the principle developed in the paper would lead ultimately to very practical results. He asked for an explanation of the principle of how results are excluded from consideration. He disliked the use of the phrase "N/4 Ringer solution" to indicate a solution like Ringer solution but one quarter its strength, and he suggested that another form should be agreed upon by authors and editors and adopted as standard.

PROFESSOR W. H. LINNELL, London, asked if it were possible to define the technique with sufficient accuracy to give other workers a chance to confirm the authors' results within reasonable time. The results, he said, were not surprising, and resembled those of kinetic experiments. He was worried as to whether different compounds would behave in different ways and "change the picture."

MR. S. G. E. STEVENS, London, suggested that the explanation for the 177 disagreeing results might be sought in the use of Teepol for cleaning the pipettes.

DR. MICHAELS, replying, said that the dexterity required for the method used could be transferred. There were many units in the whole team — assistants for reproducing solutions, controlling conditions, etc.—but with diligent practice the technique could be achieved. The 177 disagreeing results were not discarded but were used to illustrate a point. A reason for the discrepancies had been put forward. Modern statisticians maintained that if discrepancies were admitted deeper reasons for the observed results could be found. To Dr. Hartley he said that the Rideal-Walker test, which was arbitrary, would give any results wanted.

(To be continued.)

MINISTRY OF HEALTH BULLETIN

THE following abstracts are taken from the sixteenth Bulletin to Pharmacists issued by the Ministry of Health.

Human Plasma Fractionation

By R. A. Kekwick, D.Sc.

KNOWLEDGE of the proteins occurring in human plasma has rapidly widened, largely because of the perfecting of a physico-chemical analytical method, that of electrophoresis. Dissolved proteins carry an electric charge, which is due to the ionisation of acidic and basic groupings carried by certain of the amino-acids from which the proteins are built. Consequently, in an electric field, a dissolved protein migrates in much the same manner as an anion, and provided that the pH and salt content of the solution are constant, the velocity of migration is characteristic of the protein. By suitable optical devices the migration can be followed and, in a mixture of proteins, it is possible to characterise the individual proteins present and to measure accurately the quantities of each of the proteins present. The examination of human plasma by this method has shown that there are five main groups of proteins present, namely, albumin, α , β and δ -globulin and fibrinogen. The proportions in which these proteins are present, given as percentages of total protein, are approximately: albumin 55; globulins α 14, β 13.5, δ 11; and fibrinogen 6.5. A variety of physiological and immunological activities are distributed among the components.

A system of fractionation of human plasma with ethyl alcohol at low temperature developed by Cohn and co-workers was aimed primarily at the preparation of pure human serum albumin for transfusion. As the work progressed, a secondary objective developed: to separate the plasma proteins into a limited number of main fractions corresponding as closely as possible with the individual electrophoretic components. These main fractions then provided the basis of various sub-fractionations, oriented with reference to specific biological activities. The following purified materials were made available in quantities and at concentrations adequate for clinical purposes: Albumin, fibrinogen, thrombin, δ -globulin and erythrocyte isoagglutinins. Using ether in the fractionation of human plasma, fibrinogen, thrombin, globulin concentrates and a stable delipoided transfusion fluid have been made available in this country.

Since the clotting time of fibrinogen-thrombin solutions can be controlled accurately, a liquid mixture, which subsequently clots, can be applied locally. The clots formed have been used to suture severed nerves by a soldering type of process. Rather lower concentrations of fibrinogen provide, with thrombin, an excellent adhesive for the application and fixing of skin grafts, dispensing with the necessity for pressure dressings. Grafts fixed in this manner vascularise with rapidity, and a tendency to bronze pigmentation is reduced. Fibrin films, resembling transparent tissue in appearance, have been used successfully as dural substitute with marked absence of adhesion.

Somewhat less purified fibrinogen solutions are utilised in the production of fibrin foam. The solutions are beaten to a finely dispersed foam which is set by adding thrombin and then dried from the frozen state. Such foams if rewetted tend to shrink rapidly, but this can be prevented by baking the dried foam at 130° - 170° C. The dried foam will absorb almost its own volume of thrombin solution, and is used in conjunction with this for local hæmostasis in internal surgery. The foam is allowed to remain *in situ* following operative procedures, and eventually becomes organised into the tissue without scar formation.

Antibodies in many infectious diseases are associated with the δ -globulin of normal adult plasma, and concentrates containing 15 gm. proteins per 100 mls have been utilised successfully in the control of measles. They may be useful also in infectious hepatitis. For measles, intramuscular injections up to 5 mls are required. Purified albumin solutions containing 25 gm. per 100 mls of A and B iso hæmoagglutinins have been satisfactory for transfusion in cases of shock and hypoproteinemic oedema.

Detergents Ancient and Modern

By W. C. Slater

SOAP is the age-old and time-honoured agent for cleaning, but it is far from being the only one. Its chief shortcoming is that it can only be used with water. The presence of salts in the water militates against the use of anion-active soap and works in favour of the new detergents. But among the newer detergents there is sodium hexametaphosphate which, when used with

ordinary soaps, avoids the precipitation of the calcium and magnesium soaps, and in this way enhances the detergent power of soap; when dissolved in hard water, sodium hexametaphosphate undergoes double decomposition (i.e. base-exchange), whereby calcium and magnesium metaphosphates are formed. These salts are very soluble in water and are not precipitated from their aqueous solution by soap. On cleaning an article with a solution of soap and hexametaphosphate, the calcium soap curd does not form, the solution becomes discoloured by the removal of the dirt from the article which can then be rinsed and dried. The brilliancy of glass after washing with the soap-hexametaphosphate mixture has to be seen to be believed, and the brilliancy is best obtained by letting the rinsed glass dry in the air without the application of a cloth. Coloured fabrics, particularly old ones with faded colours, also show the effect well. The explanation appears to be that the dirty old fabric has been washed with soap and hard water many times, then dried and ironed; the rinsing has failed to remove all the calcium soap on the fibres and it has been "ironed in"; this process repeated many times has caused the obscuration of the colour and given the article a faded appearance.

New Organic Detergents

The action of hexametaphosphate distinguishes the substance on the one hand from soaps, that give rise to the deposits of calcium soap on fabrics and the new organic detergents that do not dissolve them off with anything like the desired rapidity. Detergents such as the alkyl sulphate type, which do not react with the calcium in the water, do not leave behind any insoluble calcium deposit.

Many newer detergents consist of sodium (potassium) alkyl sulphates, sometimes definite chemical entities, as for example sodium lauryl sulphate, but sometimes mixtures of not precisely known alkyl sulphates derived from natural sources, petroleum being the chief.

A Cation-active Detergent

Alkyl sulphates, however, do not exhaust the list of the new detergents. A new detergent developed recently in America is the disodium salt of didecylsuccinic acid $\text{NaOOC} \cdot \text{CH}_2 \cdot \text{CH}(\text{C}_{12}\text{H}_{25}) \cdot \text{COONa}$. Another is sodium dihexylsulphophthalate. An addition to the very small number of known cation-active detergents is named dodecyl-diethylenetiramine, $\text{C}_{12}\text{H}_{25}\text{NHC}_2$

$\text{H}_4\text{NHC}_2\text{H}_4\text{NH}_2$. It is fairly soluble in water, giving in 0.2 per cent. strength a reaction of pH 9.1, while a 0.25 per cent. solution depresses the surface tension of water from 74 to 25 dynes per cm. It has the very low interfacial tension of 0.1 dynes per cm.

A Note on Rose Hip Syrup

By Dr. W. P. Kennedy

WHILE the Ministry of Health has no longer a direct concern in the production of rose hip syrup it still maintains an indirect interest therein. At present, when barriers to imports are mounting rapidly, any home produced source of vitamin C is a valuable asset. This particular syrup is specially useful, for it is palatable besides being carefully standardised. In addition its production fosters a rural industry.

There is no longer any reason on account of supply difficulties to restrict the sale to particular classes of patient, and many adults benefit from the administration of ascorbic acid. Reports have been made that rose hip syrup appears to benefit cases of bronchitis and those who are liable to frequent recurrence of chest colds, and further investigation might be well worth while. It is believed that rose hip syrup also contains vitamin P but it has not been possible to do a sufficient number of assays to give the range of P content. It would be interesting to get more reliable data on these points.

In other countries a wide use is made of rose fruits. In Norway the dried and powdered hips are dusted on puddings. In Turkey and other middle-eastern countries many pastes, sweetmeats and drinks are made from them, sometimes mixed with crushed rose petals. Jams and pastes of rose hips, occasionally mixed with apple pulp, are common in Balkan countries, but it is in Russia where they are most popular and the widest range of preparations is made. During the war Russian chemists found the ascorbic acid content of these fruits was high—better than we found with British varieties—and huge amounts were collected to supply the Red Army with vitamin C. Apparently preparations were chiefly distributed as candies or as a powder to use in biscuits and the like. Also during the war Australia began to fortify jam, tomato sauce and soup with rose hip extracts. These are only a few examples but to go no farther there is enough evidence here that the rose hip industry in Britain deserves to be fostered.

COMING EVENTS

Monday, October 20

WESTERN [LONDON] PHARMACISTS' ASSOCIATION, 17 Bloomsbury Square, London, W.C.1, at 7.30 p.m. First of series of nine lectures in refresher course. Dr. H. E. Archer (chemical pathologist, West London Hospital) on "Standard Routine Investigations." (Fee for nine lectures, £1 is., payable on enrolment.)

NATIONAL ASSOCIATION OF WOMEN PHARMACISTS, 17 Bloomsbury Square, London, W.C.1, at 7.30 p.m. "Bring and Buy Sale" and "American Supper."

EIRE CHEMISTS' DRAMATIC SOCIETY, Adelaide Ballroom, Dublin, 8 p.m. to midnight. Dance.

LONDON NURSING EXHIBITION, Seymour Hall, Seymour Place, London, W.1, at 12 noon. Formal opening (exhibition remains open until October 24).

Tuesday, October 21

BIRMINGHAM BRANCH, PHARMACEUTICAL SOCIETY, Grand Hotel, Birmingham, at 8 p.m. Dr. R. Gaddie (biochemist, Birmingham General Hospital) on "Liver Function."

EAST METROPOLITAN BRANCH, PHARMACEUTICAL SOCIETY, Stratford Church Institute, 27 Romford Road, London, E.15, at 8 p.m. Debate on "The Future and Advertising of Proprietary Medicines" between Mr. W. K. Fitch (editor, "Pharmaceutical Journal") and Mr. Arthur Mortimer (managing director, J. C.ENO, Ltd.).

EIRE CHEMISTS' GAELIC CLUB, Jury's Hotel, Dublin, at 8.30 p.m. Annual meeting.

LEICESTER AND LEICESTERSHIRE BRANCH, PHARMACEUTICAL SOCIETY, Leicester College of Technology and Commerce, School of Pharmacy, at 7.30 p.m. Distribution of prizes by Dr. F. J. Dyer (lecturer in pharmacology, University of London).

WOLVERHAMPTON CHEMISTS' ASSOCIATION, Povey's Café, Victoria Street, Wolverhampton, at 7.30 p.m. Mr. P. H. Rogers on "The Newer Analgesics."

Wednesday, October 22

MANCHESTER BRANCH, PHARMACEUTICAL SOCIETY, Pharmacy Department, Manchester University, at 3 p.m. Speech day, presentation of prizes and report of delegates to British Pharmaceutical Conference.

NEWPORT AND MONMOUTHSHIRE CHEMISTS' ASSOCIATION, King's Head Hotel, Newport, Mon., at 7.30 p.m. Mr. C. Beavan (Parke, Davis & Co.) on "The Riddle of Allergy."

IRISH CHEMICAL ASSOCIATION, Science Buildings, Upper Merrion Street, Dublin, at 7.30 p.m. Professor T. S. Wheeler (president) on "A New Aspect of the Claisen Condensation."

BIRMINGHAM BRANCH, PHOTOGRAPHIC DEALERS' ASSOCIATION, Imperial Hotel, Temple Street, Birmingham, 3-9 p.m. Exhibition and demonstration of photographic apparatus.

HARROW BRANCH, PHARMACEUTICAL SOCIETY, Kerswell's Restaurant, Field End Road, Eastcote, at 7.30 p.m. Social evening. Tickets (price 3s. 6d. each) from Mr. H. W. Toms, 21 Hillcroft Avenue, Pinner, Middlesex.

Thursday, October 23

TOILET PREPARATIONS AND PERFUMERY MANUFACTURERS' FEDERATION OF GREAT BRITAIN, Park Lane Hotel, London, W.1, at 7 p.m. Dinner (Mr. L. J. Matchan in the chair).

LONDON SECTION, CHEMICAL SOCIETY, Burlington House, Piccadilly, London, W.1, at 7.30 p.m. Professor E. G. Cox on "Crystallographic Technique and its Chemical Significance."

HULL SECTION, CHEMICAL SOCIETY, University College, Hull, at 6 p.m. Professor D. H. Hey on "Addition Polymerisation."

LEEDS BRANCH, NATIONAL PHARMACEUTICAL UNION, Hotel Metropole, Leeds, at 7.30 p.m. Dr. J. E. Outhwaite on "The National Health Service and the Doctor-Chemist Relationship."

WALLASEY PHARMACISTS' ASSOCIATION, Grosvenor Ballroom, Wallasey, 8 p.m. to midnight (informal dress). Tickets 5s. each.

Friday, October 24

SOUTHAMPTON SECTION, CHEMICAL SOCIETY, Physics Department, University College, Southampton, at 5 p.m. Professor C. K. Ingold on "Isotopes and Molecular Spectra."

ILFORD AND WEST ESSEX, WALTHAMSTOW AND WEST HAM BRANCHES, NATIONAL PHARMACEUTICAL UNION, Church Institute, 27 Romford Road, Stratford, London, E.15, at 8 p.m. Mr. H. Noble (deputy secretary, N.P.U.) on "The National Health Services."

Saturday, October 25

CORK GUILD OF PHARMACY, Thompson's Restaurant, Patrick Street, Cork, at 8.15 p.m. Whist drive.

NOTTINGHAM BRANCH, PHARMACEUTICAL SOCIETY, is holding its annual dinner at the Victoria Hotel, Nottingham, on Thursday, November 6, at 6.30 p.m. (evening dress optional). Tickets (price £1 1s. each) may be obtained from Mr. W. F. Newbold, 2 Chapel Bar, Nottingham.

DRAFT POISONS RULES

It is announced that the Home Secretary intends to make Rules amending the Poisons Rules, 1935. Copies of the proposed amendments may be obtained from The Under Secretary of State, Home Office, Room 132, St. Stephen's House, Victoria Embankment, London, S.W.1, to whom any representations concerning them should be made in writing not later than November 24. The proposed amendments are summarised below.

1. To amend Rule 6 so that Section 18(2) of the Pharmacy and Poisons Act shall not apply to agricultural and horticultural insecticidal dusts containing not more than 4 per cent. of nicotine.

2. To amend Rule 12 so that prescriptions for Fourth Schedule poisons for external treatment only need not include a statement of dose.

3. To allow strychnine to be sold, under specified conditions, for poisoning moles or seals.

4. To exempt from the provisions of the rules brucine in surgical spirit containing not more than 0.015 per cent. brucine.

5. To exempt from Fourth Schedule restrictions sulphonamides contained in ointments and surgical dressings.

CORRESPONDENCE

E. Theriac. And.

SIR,—I have only recently noticed Mr. A. W. Keith's letter in which he inquires as to the meaning of "E. Theriac. And." on an old drug-jar (C. & D., August 2, p. 49). In your reply you say that "The E. (for electuarius) was superfluous..." and that "...an electuary containing Theriaca Andromachi... would be a monstrosity." This reply is evidently based upon a misunderstanding, for Theriaca Andromachi was in fact one of the principal of the official electuaries. The fifth London Pharmacopœia, which was published in 1746, was the last in which theriac appeared. Eleven Electaria (not Electuaria) are included, among which are Theriaca Andromachi, Mithridatium, and Philonium Londinense.

N. HOWARD-JONES, O.B.E.

Worth, Sussex.

[There was no misunderstanding on our part. So long as Theriaca Andromachi was in the Pharmacopœia Londinensis, its title appeared without a prefatory word or initial. Electuarius and its plural have for centuries been preferred to electarium and its plural.—EDITOR.]

Composition of a Dried Milk

SIR,—In the ninth edition of "Modern Methods of Feeding in Infancy and Childhood" (Dr. Donald Paterson and Dr. J. Forest Smith, Constable, 1947) references are made to the composition of the better-known dried milk proprietary preparations. Certain essential details of the Ostermilk preparations, however, are incorrect and will be amended by means of a corrigendum in all future copies of this edition. It is understood that the first printing was sold out, and that a reprint is in process of appearing. We would draw the particular attention of your subscribers to the following:—

Ostermilk No. 1.—The correct percentage composition is: Water, 1.9; protein, 18.1; fat, 19.0; carbohydrate, 56.0; caloric value per oz., 137.

Ostermilk No. 2.—The correct percentage composition is: Water, 2.8; protein, 26.0; fat, 26.5; carbohydrate, 37.5; caloric value per oz., 144.

As the book is frequently used as a source of reference, it is hardly necessary to stress the importance of the figures to all concerned with the artificial feeding of infants.

Greenford. GLAXO LABORATORIES, LTD.

NEW BOOKS

Les Traitements Capillaires (pp. 67). **Hygiène des Plages et de la Montagne** (pp. 80). **Parfumerie Nouvelle** (pp. 87). Each 9½ in. x 6¼ in. First three of a series of *fascicules spécialisés* published by "La Parfumerie Moderne," 15 rue Constant, Lyon, 3e, France. 75 francs each. The works consist of monographs by such well-known authorities as H.-M. Gattefossé, E. Mahler and Dr. H. Jonquières. The first ranges from "chemistry in the service of permanent waving" to "skin reactions to war-time brilliantines"; the second from "action of ultra-violet sun rays on the skin" to "holiday specialities"; and the third (enlivened by a chalk drawing of "The Barber of Göttingen" and a musical score purporting to express "eau de Cologne," "aphrodisiac" and the like) from "present-day perfumes" to "perfume and its publicity." The first two are amply supplemented with chemical formulæ, tables and diagrams. The third, less technical, adds up to an attempt to establish perfume-compounding as an olfactory art, comparable with the visual art of painting and the aural art of music.

Bell's Sale of Food and Drugs.—R. A. Robinson, O.B.E. 8¼ x 5¼ in. Pp. 529 and 71. Twelfth edition. 30s. Butterworth & Co (Publishers), Ltd., Bell Yard, Temple Bar, London W.C.2. A work so widely recognised as the standard ordinarily needs little further recommendation at the appearance of any new edition. The latest (the twelfth) incorporates, however, more than the usual amount of new matter, and should be acquired by all who have derived invaluable guidance and profit from its predecessors. The present edition deals with the law as it existed on December 19, 1946. It includes, in fact, one important High Court case (Potter & Clarke, Ltd., v. the Pharmaceutical Society) decided while the edition was with the printers. The fact that some of the findings were later reversed in the Appeal Court was a risk always inherent in publishing works of the character of Bell, and detracts nothing from the credit due to the publishers for their enterprise in stopping the presses to include them. A number of decisions under the Food and Drugs Act are subject to no such proviso, and as the opportunity has been taken to include various Orders not given in previous editions, as well as new Orders made under emergency legislation, the present edition is of quite outstanding importance and interest.

OVERSEAS TRADE NEWS

Nicaragua's Export of Ipecacuanha.—Exports of ipecacuanha root from Nicaragua in 1946 totalled 73,372 kilos. Britain was the principal customer, taking 44,474 kilos, followed by the United States which received 18,813 kilos.

Bulgarian Rose-oil Industry.—The rose-oil industry in Bulgaria is now a government monopoly. The 1947 output of oil has been restricted because of the severe weather conditions in the spring. 1946 production totalled 794 kilos, about one-fifth of the 1939 output.

Banned Chinese Imports.—Perfumery, cosmetics and manicure sets are included in a list of products, importation of which, into China, is banned by the Chinese Government. It is understood that sale of all articles in the list will be prohibited throughout China from January 1, 1948.

Portuguese Import Restrictions.—Portugal is to restrict imports of articles considered non-essential, because of the present adverse trade balance. Soap, perfumes, tooth-paste and cosmetics are included in the list of items which will henceforth require an import licence.

French Chemical Production.—Chemical production in France during August included chloride of lime, 125 metric tons; tartaric acid, 150 metric tons; bismuth carbonate, 3,003 kilos; other bismuth salts, 6,179 kilos; iodine, 1,813 kilos; and iodides, 4,416 kilos.

Canadian-German Trade.—Canada imported German goods to the value of \$339,000 in the first six months of 1947. Imports included potash from the Russian zone to the value of \$263,000. Other goods delivered to Canada included cameras, optical instruments and chemicals.

Chilean Import Restrictions.—The Chilean Ministry of Economy and Commerce has published a decree which prohibits the issue of import licences for a long list of articles and commodities considered luxuries. The list includes dentifrices, depilatories, hair dyes and other toilet and cosmetic preparations.

Argentine Fish-Liver Oil Industry.—The fish-liver oil industry of the Argentine, which developed during the war years, is being expanded. In 1946 exports of oil to the United States were valued at \$3,419,605 and during the first four

months of 1947 exports to that country totalled \$1,848,819.

Italian Olive Oil Production.—The 1947-48 Italian olive oil output is estimated at 2,200,000 quintals. If the olive crop meets no setback in the next few months, the production of olive oil will be the largest for about ten years. About 700,000 to 800,000 quintals of this year's output will be held in reserve.

Synthetic Glycerin Plant.—Production of synthetic glycerin is to start at a new plant at Houston, Texas. Glycerin will be manufactured from propylene, chlorine and caustic soda, and pilot plant tests have shown that synthetic glycerin can meet the high standards of quality, purity and uniformity required by the cosmetic, food, pharmaceutical and plastics industries. Commercial production of epichlorohydrin for use as an intermediate in manufacturing plastics, fumigants, cosmetics and stabilizers, is also to begin shortly.

Formosa Camphor Industry.—Efforts are being made by the Chinese Government to rehabilitate Formosa's camphor industry. Before the war, Formosa supplied 70 per cent. of the world's requirements of this product. Because of reorganisation and complicated take-over procedures, sale and production of camphor are at present at a complete standstill. An official of the Taiwan Camphor Co. has stated that half of the company's 1,000-ton stockpile at the time of the Japanese surrender remains intact, with no buyers yet in sight. Formosa started producing camphor in 1899, soon after it was ceded to Japan, and eventually became the world's greatest supplier. Peak production was 11,300,000 lb.

Indian Glass Industry.—A panel on the glass industry, appointed by the Government of India, suggests the raising of the scale and quality of output of those sections which have already been developed in the country—sheet glass, bottle ware, pressed ware and fancy lines—to a level sufficient to meet the whole of domestic requirements. Initiation of production in other lines such as plate glass and optical glass, a zonal system of localisation, and development of a cottage industry, are also suggested. The panel attributes the present backward state of the domestic industry principally to an inadequate scale of tariff protection and slow progress in technical developments.

TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade.

28 Essex Street, W.C.2, Oct. 15

PRODUCTION OF PHARMACEUTICAL AND FINE CHEMICALS continues on a good scale with demand still outpacing supply. In the export trade more competitive conditions are noticed, heralding a changeover from a sellers' to a buyers' market. At present, however, prices are fully maintained with the tone of the market very firm. A good inquiry is being received for ASPIRIN but supplies are still very short. BISMUTH SALTS are also attracting great interest but output is severely limited by manufacturers' lack of supplies of the metal.

Crude Drugs

The markets for CRUDE DRUGS continue on a subdued level with a fair volume of inquiry, however, and few price changes. Rather lower prices are asked for STAR ANISE in some quarters but there has been little business done. BUCHU LEAVES has attracted more interest and only small supplies of the official drug are now available on the spot; new-crop will not be arriving for some months. CAMPHOR is selling at former rates; it is understood that no import licences are to be granted until January. A fair business has been done in MANGALORE CARDAMOMS and quotations are higher for some grades. CASCARA SAGRADA continues firm. A parcel of Jugo-Slav COLCHICUM CORMS has arrived and quotations are at 9s. 9d. to 10s. per lb. KAMALA, o come forward, is offered at 3s. per lb. MENTHOL is tending firmer. Little change is shown in SENEGA. SENNA has attracted buyers and a fair business has been done in the better grades of Alexandrian pods. BEESWAX supplies are still difficult. CANDELLILA WAX has been marked up in price. CARNAUBA WAX is tending firmer for fatty greys. The SHELLAC market is easier after a firm period. The position of Italian commodities is difficult, owing to fluctuations in exchange rates.

Essential and Expressed Oils

Business in ESSENTIAL OILS has been restricted in volume with many buyers purchasing very little more than their immediate requirements. Spot quotations for the majority of oils are unchanged on the week. Parcels of ANISEED, to arrive from the Continent shortly, are offered at prices from 5s. 9d. to 6s. 3d. per lb. for original packages. Ceylon CINNAMON BARK of good quality is available at from 10s. per oz. CITRONELLA is easier on spot. Lower prices are asked for Bourbon GERANIUM. Supplies of ALMOND OIL (B.P.) are very difficult to find and, as importations are no longer permitted, stocks will soon be cleared.

U.S. Drug and Chemical Report

New York, October 10

MORE industrial chemicals have been advanced in price during the past week including SODIUM BISULPHATE and POTASH. A major PHENOL producer has increased spot prices by one cent per lb. with a similar increase to come into effect for contracts on November 1, bringing the revised rates to 11½-12¼ cents per lb., f.o.b. U.S. coal-tar exports this year have been at an abnormally heavy rate in spite of the critical domestic position. Other price increases include the STEARATES which have been advanced in price by four cents per lb.; ALUMINIUM stearate now costs 43 cents per lb., CALCIUM stearate, 44 cents per lb. and ZINC stearate, 47 cents per lb. CAFFEINE schedules have been advanced between 25 and 50 cents per lb.; ALKALOID now costs \$4.25 per lb., ANHYDROUS \$4.50 and CITRATE \$2.75. Synthetic AMYL ACETATE is up 3 cents per lb.; pentane material is unchanged in price.

The U.S. market for MERCURY is in a highly competitive state at the present time; it is understood that about 600 flasks of this metal are now on their way from Jugo-Slavia. Supplies of COD-LIVER OIL from Iceland and Newfoundland are not expected to offset the reductions in shipments from Norway. The upward price trend in MENTHOL appears to have been halted for the time being. There is very little interest displayed here in imported CRUDE DRUGS although business in some domestic varieties has picked up. Nevertheless, it is reported that higher prices for goods imported from European countries will be operating in a few weeks time. Indian materials are understood to be moving into a much tighter position, because of conditions at the primary centre. VANILLA BEANS are going to be in very short supply because of the poor crop in Madagascar. The improved volume of inquiries for ESSENTIAL OILS was maintained last week. Imported materials are understood to be coming in at a good rate. The arrival of large quantities of French LAVENDER OIL has weakened the price by 20 cents per lb. One dealer was asking \$4.80 per lb., against \$5.00 previously.

Pharmaceutical Chemicals

ACETANILIDE.—Makers' quotations for 1-cwt. lots in kegs are at 2s. 6d. per lb. for crystals and 2s. 7d. per lb. for powder.

ADRENALINE.—Makers' prices for the synthetic are as follows: 100 gm., 2s. 9d. per gm.; 250 gm., 2s. 6d.; 500 gm., 2s. 2d.; 1,000 gm., 1s. 11d. Quotations for the natural are at from 5s. 6d. to 6s. per gm., according to quantity.

BENZOIC ACID.—Makers' quotations are at from 2s. 7d. to 3s. per lb. for B.P., with technical grade at 2s. 6d. to 2s. 8d. **SODIUM BENZOATE** is quoted from 2s. 6d. to 2s. 10d. per lb.

BENZYL BENZOATE.—B.P. quality is quoted from 4s. 6d. to 5s. per lb., according to quantity; perfumers' quality, 5s. to 5s. 6d. per lb.

BISMUTH SALTS.—Makers' prices per lb. for 1-cwt. lots are as follows: **CARBONATE**, 14s. 10d.; **CITRATE**, 12s. 6d.; **SUBNITRATE**, and **SALICYLATE**, 12s. 9d.; **SUBGALLATE**, 15s. 9d.

CHLOROCRESOL.—Quotations are maintained at from 4s. to 4s. 6d. per lb.

CHLOROFORM.—Current rates are as follows: 1-cwt. lots, in Winchester quarts, 2s. 11d. per lb.; 56-lb. lots, 2s. 11½d. per lb.

COCAINE.—The current schedule is as follows: **ALKALOID**, B.P., ½ oz., 50s. 10d. per oz.; ¾ oz., 47s. 9d.; 1 oz., 46s. 2d.; 2 oz., 44s. 11d.; 4 oz., 44s.; 8 oz., 43s. 5d.; 9 oz. and more but under 16 oz., 41s. 7d.; 16 oz. but under 25 oz., 40s. 4d.; 25 oz. and over, 39s. 1d. **HYDROCHLORIDE**, B.P., ½ oz., 47s. 3d.; ¾ oz., 44s. 2d.; 1 oz., 42s. 7d.; 2 oz., 41s. 6d.; 4 oz., 40s. 7d.; 8 oz., 40s.; 9 oz. and more but under 16 oz., 38s.; 16 oz. but under 25 oz., 36s. 10d.; 25 oz. and over, 35s. 8d.

CREAM OF TARTAR.—British makers' rates are unchanged and are as follows: 10-cwt. lots, 201s. per cwt.; 5-cwt., 202s.; 3-cwt., 203s.; 1-cwt., 205s.

DIAMORPHINE.—Prices per oz. are: **ALKALOID**, ½ oz., 54s. 6d.; 1 oz., 52s.; 2 oz., 50s. 6d.; 3 oz., 49s. 9d.; 4 oz., 49s. 6d. **HYDROCHLORIDE**, ½ oz., 50s. 3d.; 1 oz., 47s. 9d.; 2 oz., 46s. 3d.; 3 oz., 45s. 6d.; 4 oz., 45s. 3d. per oz.

DIGITOXIN.—Current quotations are in the region of 170s. per gm.

ERGOMETRINE.—Makers' prices per gm. are as follows: **BASE**, in quantities of 1 gm., £20; 5 gm., £19 5s.; 20 gm., £19. **ACID MALEATE**, 1 gm., £14 15s.; 5 gm., £14 5s.; 20 gm., £14.

EUCALYPTOL.—Quotations for B.P.C. are from 12s. to 13s. per lb., according to quantity.

GUAIACOLS.—Liquid is quoted at 14s. 6d. to 16s. per lb.; crystal and carbonate, 14s. to 15s. per lb., according to quantity.

HEXAMINE.—B.P. is quoted at from 1s. 8d. to 2s. per lb., as to quantity.

HEXYL RESORCINOL.—Quotations are around 17s. 6d. per oz.

HOMATROPINE.—Makers' prices per oz. are as follows (prices per gm. in brackets): **ALKALOID**,—1 oz., 97s. 6d.; 4 oz., 92s. 6d.; 16 oz., 87s. 6d. (4s.). **HYDROCHLORIDE**, **HYDROBROMIDE** and **SULPHATE**.—1 oz., 75s.; 4 oz., 70s.; 16 oz., 65s. (3s. 2d.).

HYOSCINE HYDROBROMIDE.—Makers' quotations are from 147s. 6d. to 150s. per oz., according to quantity.

Crude Drugs

ACONITE.—Indian root is offered at from 375s. to 380s. per cwt., according to holder.

ALOE.—Cape, on the spot, is quoted at 170s. to 175s. per cwt.; for shipment, 145s., c.i.f. Curacao, in boxes, is quoted at 235s. to 245s., spot; forward, 215s. to 220s., c.i.f. Socotrine is available at prices from 156s. to 190s. per cwt.

ANISE (STAR).—Spot quotations are from 120s. to 130s. per cwt.; for shipment, 110s., c.i.f.

ARECA NUTS.—Quiet. Ceylon is quoted at 65s. to 67s. 6d. per cwt., spot.

BALSAMS.—*Canada* is quoted at 17s. per lb., spot. *Pará Copaiba*, spot, is offered at 8s. per lb. for soluble and 7s. 3d. for insoluble. *Peru*, San Salvador, is available at 6s. 9d. to 7s. per lb., duty paid. *Tolu* is quoted at 18s. per lb., spot.

BUCHU.—Short-round or oval leaves are quoted at 4s. 2d. to 4s. 3d. per lb., spot; shipment, 4s., c.i.f. The official leaves are in short supply on the spot.

CALABAR BEANS.—Quotations are at 10½d. per lb., ex warehouse, Liverpool.

CALUMBA.—Natural unwashed root is quoted at 65s. per cwt.

CAMPHOR.—Chinese tablets (½-oz.) quoted at 11s. 3d. to 11s. 6d. per lb.; refined powder (B.P.), 10s. 3d. to 10s. 6d.; *Formosa* (B.B.), 9s. 6d. to 10s.; 2½-lb. slabs, afloat, quoted at 10s. 6d. per lb., landed, duty paid. Chinese crude, 93-95 per cent., 7s. per lb.

CARDAMOMS.—*Mangalore*: Half-bleached, A's, are quoted at 8s. 6d. per lb.; B's, 8s. per lb.; seeds, 7s. (nominal), spot. *Aleppy* seeds No. 1, offered at 7s. 9d. per lb.; *Aleppy* greens, 6s. 9d. per lb., spot.

CASCARILLA.—Quills are quoted from 1s. 8d. to 1s. 10d. and siftings at 1s. 6d. per lb., spot.

CINNAMON.—0000 quill is quoted at 3s. 9d. per lb., spot. Quillings is available at 2s. 1½d. per lb., spot; featherings, 1s. 6d.; chips, 1s.

COLCHICUM.—Spot. Jugo-Slav corms, just arrived, are quoted at 9s. 9d. to 10s. per lb.

GUM ACACIA.—Kordofan cleaned sorts steady at 73s. per cwt., in London or Liverpool; afloat, 70s., c.i.f.; shipment, 69s., c.i.f. Bleached No. 1 is quoted at 145s., ex store. Talha is at 42s. 6d. per cwt., spot; forward, 38s. 6d., c.i.f.

IPECACUANHA.—Firm. Nicaraguan root on the spot is quoted at 28s. to 28s. 6d. per lb.; shipment, 25s. 6d., c.i.f. Colombian, scarce on the spot is quoted at 27s. 6d.; shipment, 24s., c.i.f.

MENTHOL.—Brazilian material on the spot is quoted at 49s. to 51s. per lb., duty paid; forward offers, 43s., c.i.f., buyers' licence. Chinese, in original cases, is quoted at 57s. 6d. per lb., duty paid; forward quotations are around 60s. per lb., c.i.f.

NUTMEGS.—Spot, West Indian 80's are quoted at 3s. per lb.; sound unassorted, 2s. 5d.; wormy and broken, 1s. 8d. East Indian 80's are quoted at 3s. 6d., spot.

PIMENTO.—Spot is worth 1s. 3d. per lb.; to arrive, 119s. per cwt., c.i.f.

PSYLLIUM SEED.—Black, on the spot, is quoted at prices from 2s. 3d. to 2s. 6d. per lb.; pink seed (Isphaghula) is difficult to find at 1s. 5d. per lb.

QUASSIA.—Chips, quoted at 42s. 6d. per wt., spot.

RHATANY.—Spot quotations are unchanged at 11d. per lb.

SEEDS.—Quiet. **ANISE.**—Cyprus, 2s. 1d. per lb.; Turkish, 2s. per lb., duty paid, spot London or Liverpool. **CELERY.**—Indian unchanged at 1s. 4d. per lb., ex store Liverpool.

CORIANDER.—Market firm. Morocco, on the spot, quoted at 45s. per cwt., duty paid, ex wharf London; Argentine is reported to have been sold at 47s. 6d. per wt., duty paid in London; English, nominal, 70s. per cwt. **CUMIN.**—Spot. Indian offered at 230s. per cwt., ex wharf Liverpool or Hull; Cyprus sold at 225s. per cwt., ex wharf London. **DILL.**—Indian, 42s. 6d. per cwt. quoted in Liverpool and 45s. per wt. in London. **FENUGREEK.**—Indian offered at 45s. per cwt., ex store Liverpool and 46s. per cwt., ex wharf London. **FENNEL.**—Indian sold at 75s. per cwt., ex wharf Liverpool. **CARAWAY.**—Dutch quoted at 1s. 1d. per lb., spot London, duty paid.

SENEGA.—Spot quotations for old-crop material are from 12s. 6d. to 12s. 9d. per lb.; new-crop, for December delivery, 12s. per lb.

TRAGACANTH.—Selected ribbon is quoted at prices from £140 to £145 per cwt.; other grades of white ribbon are available at from 70 to £115 per cwt. Pale leaf is quoted at £45 to £65 per cwt.; amber, from £30 to 40; red, from £16 to £22; hoggy, £10 to 14.

TURMERIC.—Madras finger is quoted at 07s. 6d. per cwt., spot Liverpool or London.

VALERIAN.—Belgian root is at 180s. to 05s. per cwt., according to holder.

WAXES.—Nominal quotation for Dar-es-salaam BEES' on the spot is 385s. per cwt.; shipment, 365s., c.i.f., nominal. Lindi, spot, 60s., nominal. Benguela is quoted at 70s., duty paid; shipment, 305s., c.i.f. **MANDELILLA.**—Firm. Spot is quoted at 25s. per cwt.; shipment, 395s., c.i.f. **CARAUABA.**—Fatty grey is steady at 610s. per wt., spot; parcels afloat are dearer at 30s., c.i.f.; for shipment, 510s., c.i.f. Prime yellow, spot, 800s. per cwt., shipment, 750s., c.i.f. **MONTAN.**—Steady. Reibeck is quoted at 390s. per cwt., spot; Czechoslovak crude, 25s., spot. **OURICURI.**—No change in prices. 9 per cent., on the spot, is quoted at 375s. per cwt.; shipment, 5 per cent., 385s., c.i.f.; 2 per cent., 400s., c.i.f.; 1 per cent., 410s., c.i.f.

Essential and Expressed Oils

ALMOND.—B.P. (sweet) is difficult to find on the spot, with prices at from 8s. to 12s. per lb. Good-quality bitter oil is quoted at 55s. to 60s. per lb.

ANISEED.—Spot is quoted at about 7s. per lb.; to arrive, 5s. 9d. to 6s. for drums, 6s. to 6s. 3d. for tins and cases, landed values.

BAY.—West Indian is quoted at 7s. 6d. to 9s. per lb., spot.

CADE.—Spot quotations are at from 4s. to 5s. 6d. per lb., according to quantity.

CANANGA.—Java oil is quoted at from 35s. to 40s. per lb., spot.

CASSIA.—Spot quotations are from 15s. 9d. to 17s. per lb., as to quantity.

CASTOR.—Controlled prices are unchanged: Firsts, £180 per ton; seconds, £176, naked ex works.

CINNAMON.—Imported Ceylon bark oil is available at from 10s. to 12s. 6d. per oz., according to quantity; English-distilled, from 24s. to 40s. per oz. Leaf oil is weaker forward but spot is unchanged at from 10s. to 13s. per lb.

CITRONELLA.—Ceylon, spot, is quoted from 4s. 6d. to 5s. per lb.; Java, forward, quoted at about 7s. 6d., c.i.f.

CLOVE.—English-distilled bud oil is steady at 11s. 6d. to 12s. per lb.

CORIANDER.—English-distilled, 250s. per lb., nominal quotation.

FENNEL.—Sweet oil is quoted at 17s. 6d. to 20s. per lb., on the spot.

GERANIUM.—Bourbon is quoted from 67s. 6d. to 75s. per lb., according to quantity and grade; shipment offers are at about 57s. 6d., c.i.f.

JUNIPER BERRY.—Importers' quotations are from 30s. to 35s. per lb. English-distilled ranges from 50s. to 125s. per lb., according to quality and seller.

LAVENDER.—French (38 to 40 per cent. esters) is quoted from 35s. to 40s. per lb. Spanish (spike), 10s. 6d. to 13s. per lb., spot.

LEMONGRASS.—Quotations for spot supplies are from 6s. 9d. to 9s. per lb., according to quantity and seller.

NUTMEG.—Quotations for English-distilled oil are from 42s. to 47s. 6d. per lb.

PATCHOULI.—Seychelles is quoted at 65s. to 80s. per lb., spot; to come forward, 60s. per lb.; Singapore is quoted 90s. to 120s. per lb., according to quantity and seller.

ROSEMARY.—Spanish is quoted at 7s. to 10s. 6d. per lb., according to seller and quantity.

THYME.—Red oil (40-42 per cent. phenols) is at 13s. 6d. to 16s. per lb.; white oil is quoted at 17s. to 18s. 6d. per lb., spot.

TURPENTINE.—Rectified (B.P.) is quoted as follows: 1 carboy, 2s. 6d. per lb.; 24 Winchester quarts, 2s. 7½d.; 17, 2s. 10½d.; 6, 3s. 2d.; 3, 3s. 4d. per lb.

TRADE MARKS

(From "The Trade Marks Journal,"
September 24)

- "FLEXIBLE EARTH"; for fertilisers containing earth (1). By the British Bamboo Cane Co., Ltd., St. Benet's Abbey, Lanivet, Bodmin, Cornwall. B647,983.
- "AMANDYL"; for chemical products used in industry (1). By May & Baker, Ltd., Dagenham, Essex. 648,678.
- "ALBIRI"; for all goods in classes (1), (3), (5). By A. H. Charles, Ltd., 9 Collier Row Road, Romford, Essex. 648,942-44 (Associated).
- "AUTUMN EVENING"; for soaps, perfumes, essential oils, cosmetic preparations (not being toilet preparations), hair lotions and dentifrices (3). By Septisol, Ltd., 207 Clarendon Road, Manchester, 16. 644,340.
- "GLOSSO"; for saponaceous detergent preparations (3). By Reginald Malcolm Broadhead, Westmount, Seaview Road, Broadstairs, Kent. B646,166.
- "ADMIRACURL"; for oils and solutions for use in hair waving (3). By Sven H. Larsson, 11 Vidbllicksgatan, Gothenburg, Sweden. 649,231.
- "JEU"; for non-medicated toilet preparations, cosmetics, perfumes, perfumed soap and toilet articles in this class (3). By Parfumerie Vibert Frères, S.A., 128 rue de Paris, Montreuil (Seine), France. 649,345.
- "MONACLENSE"; for non-saponaceous cleaning preparations, not being for use in the course of manufacture (3). By Commercial Supplies Syndicate, Ltd., 94 Liversage Street, Derby. 649,373.
- "THREE MOONS"; for perfumes, toilet preparations (not medicated), cosmetic preparations, dentifrices, depilatory preparations, toilet articles (not included in other Classes), sachets for hair waving, soaps and essential oils (3). By Leslie Manley, 104 Addy Street, Sheffield. 649,445.
- "LOSKI"; for perfumes, toilet preparations (not medicated), cosmetic preparations, dentifrices, depilatory preparations, toilet articles (not included in other Classes), sachets for use in hair waving, soaps and essential oils (3). By Godfrey Thornfield, Fortess Grove, 29-34 Fortess Road, London, N.W.5. 649,916 (Associated).
- "IRRADEN"; for soaps, cleaning preparations for laundry and domestic purposes, and starch and washing powders for laundry purposes (3). By Par-Products, Lesden House, 590-91 Stourbridge Road, Scott's Green, Dudley, Worcs. 649,989.
- "GONAZOLE"; for medicated preparations containing azoles for use in the treatment of genito-urinary infections (5). By May & Baker, Ltd., Dagenham, Essex. B645,584 (Associated).
- "EUTONON"; for pharmaceutical preparations for human and veterinary use, and infants' and invalids' foods (5). By Gladys Suie Harris, Red Roof, Horne, nr. Horley, Surrey. 647,630.
- "STEROXIN"; for ointments for the treatment of bacterial infections of the skin, of skin diseases, and of infections of wounds (5). By J. R. Geigy Aktien-gesellschaft, 215 Schwarzwaldallee, Basle 16, Switzerland. 647,655.
- "VIPER" with illustration of viper on label design; for veterinary dips (5). By Osmond & Sons,

Ltd., Standard Chemical Works, Doughty Road, Grimsby. 649,519 (Associated).

- "CALFER-RUBE"; for pharmaceutical preparations (5). By C. J. Hewlett & Son, Ltd., 35-43 Charlotte Road, London, E.C.2. 649,718.
- "VRANILL"; for pharmaceutical preparations for veterinary use, sanitary substances, and materials prepared for bandaging (5). By Lennard, Lee-Narvill & Co., Ltd., Lee-Narvill Laboratories, 216 Anlaby Road, Hull. 649,819 (Associated).
- "HAMRAD" in distinctive lettering on diamond background; for electrical apparatus and appliances included in this class and scientific apparatus and appliances (9). By Hamrad Wholesale Ltd., 348 Portobello Road, Ladbroke Grove, London, W.10. 644,776.
- "GIB"; for micrometer attachments for machine tools, vacuum gauges for chucks and for work holders of machine tools; and camera tripods (9). By B. G. (London), Ltd., 17 Stratford Place, London, W.1. B647,330.
- "MOLATON"; for scientific and teaching appliances (9). By Imperial Chemical Industries, Ltd., Wexham Road, Slough, Bucks. 648,814.
- "VAROTAL"; for lenses (9). By Taylor, Taylor & Hobson, Ltd., 104 Stoughton Street, Leicester. 650,340.
- "SANETTE" on device of cross, colour of cross device being limited to blue; for toilet paper (not medicated) (16). By Green (Paper Merchants), Ltd., Harlequin Avenue, Great West Road, Brentford, Middlesex. 648,876.

A PHARMACIST'S ANTHOLOGY

BARBER's itch, quite prevalent in Paris, was not always contracted in a barber's shop, but often in a public bath or sometimes in a church. It is caused by a microscopic creature which has little else to do. The poor, when afflicted with this horror, went to the hospital St. Louis, where the skin specialists had worked out a cure. The patient stood naked in a sulphurous shower bath (containing other mysterious ingredients) and then allowed himself or herself to dry while reading back numbers of "The Catholic World" or "La Vie Parisienne." The beneficent doctor in charge asked the engineers who ran the heater to rig up a steam steriliser that would kill the bacteria of the itch without destroying the garments. As so often happened in latter-day France, one branch of science could not keep pace with another. The steriliser, while it killed the itch bugs and whatever else moved around, shrunk cheap coats, trousers, shirts and underwear, and blended the inexpensive dyes into a dismal neutral tone.

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- 3** FOR THE INHIBITION OF PEROXIDE FORMATION IN ETHERS

References

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|---|---|
| <p><i>Chemistry and Industry</i>, 1944, 67.
<i>Chemistry and Industry</i>, 1944, 127.
<i>Quarterly Journal of Pharmacy and Pharmacology</i>, 1943, 232.
<i>Pharmaceutical Journal</i>, 1943, 58.
<i>The American Perfumer</i>, 1943, 163.</p> | <p><i>Journal of the Society of Chemical Industry</i>, 1944, 107.
<i>Journal of the Society of Chemical Industry</i>, 1944, 8.
<i>Oil and Soap</i>, 1942, 144.
<i>Oil and Soap</i>, 1945, 81.
<i>Nature</i>, 1944, 824.</p> |
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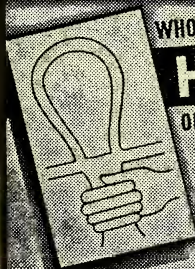
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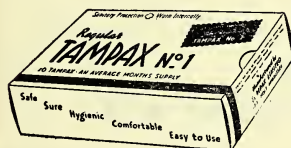
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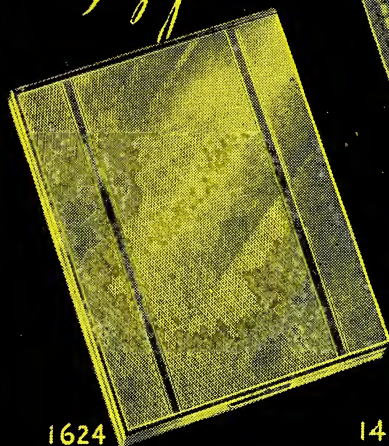
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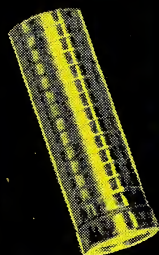


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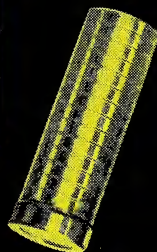
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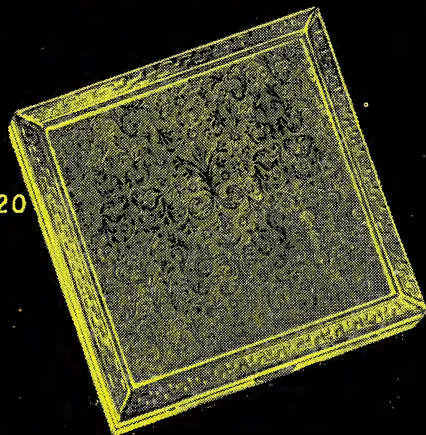
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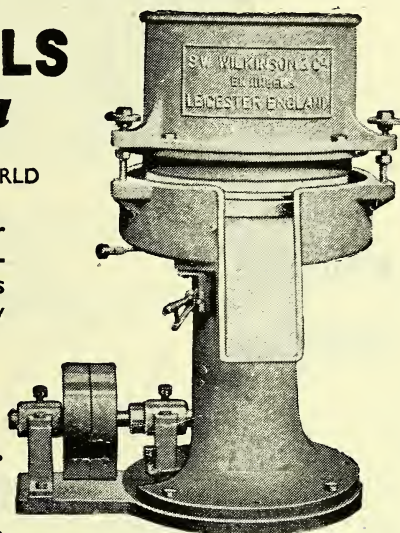
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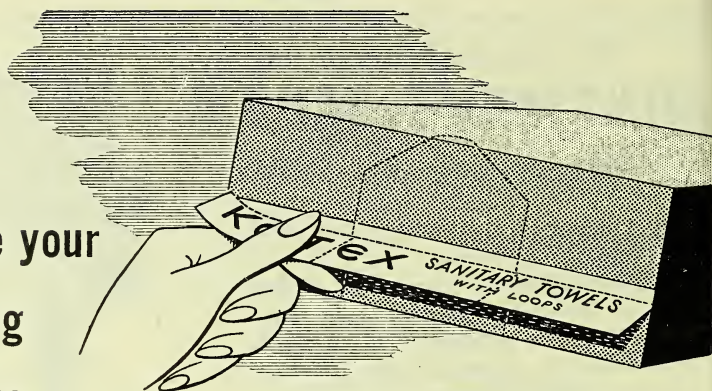
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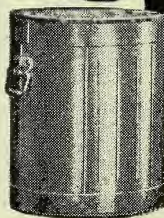
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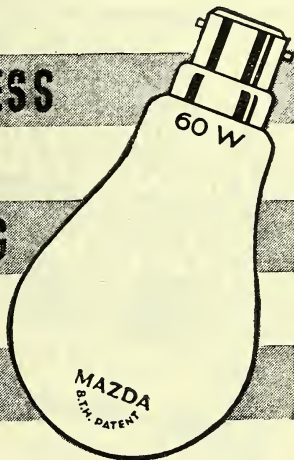
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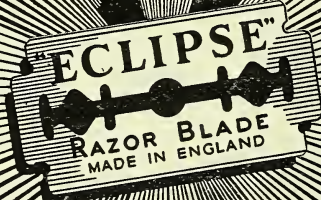
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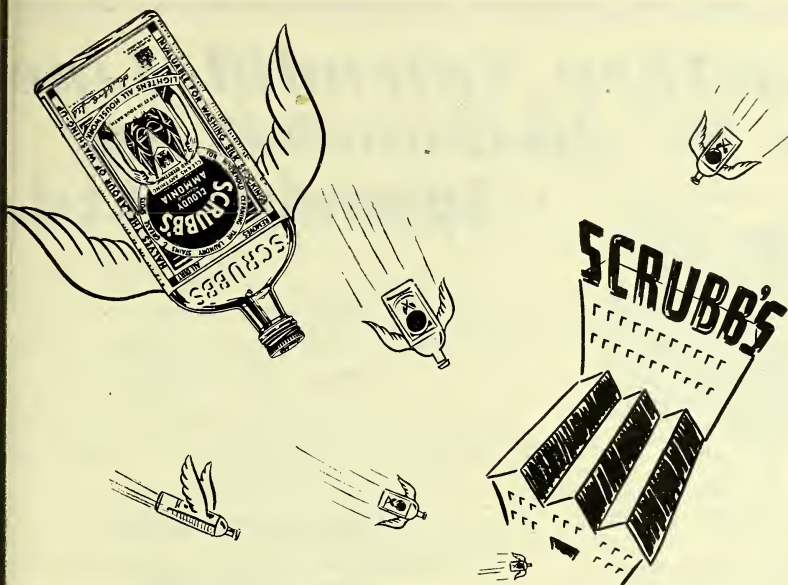
Obtainable only from Retailers.
JAMES NEILL & CO. (SHEFFIELD) LTD.

£206

PHOTOGRAPHIC FINISHING FOR THE TRADE

We are now in the position to handle all kinds of photographic finishing work for the trade, including developing, printing, enlarging, copying etc., also commercial and industrial photography in the Oxford and London districts. Your enquiry will receive prompt attention.

WILL R. ROSE LTD
Oxford Works
20, St. Ebbes Street
OXFORD



Bottles aren't Pigeons..

they won't fly home
you have to coax 'em!

Empty Scrubb's Cloudy Ammonia bottles very urgently required. We will allow 2/- per dozen and collection will be made by us in the London area immediately on receipt of your advice. Customers outside this area should return their empties to our address and we will pay the carriage incurred. Your co-operation is essential for continuity of supply.

**PRIORITY IN DELIVERIES WILL BE GIVEN TO THOSE
CO-OPERATING IN THE RETURN OF EMPTIES**

SCRUBB & CO LTD WIMBLEDON FACTORY ESTATE · MORDEN RD · LONDON · S.W.19 ·

Another Splendid Line to be distributed by Splendor Ltd.



**BAUME
DALET**

*Made expressly
for Bunions*

The manufacturers of B.D. Baume Dalet announce that in future distribution to the trade will be in the hands of Splendor Ltd., London and Nottingham.

Supplies of this rapidly selling line can be obtained from your usual wholesalers or direct from

SPLENDOR LTD.

**7c LOWER BELGRAVE ST., LONDON, S.W.1
AND NOTTINGHAM**

**SCIENTIFICALLY FORMULATED
INSECTICIDES**

SUISECT

Containing D.D.T. Plus a High Percentage of Pyrethrum

**SPECIAL INSECT
POWDER**

In handy-sized sprinkler-top containers. 1/6

SPRAY POWDER. In 8oz. lever-lid containers. 1/9

LIQUID INSECTICIDE

In 16oz., 32oz. & Gallon Cans. 2/9, 4/9, 17/6 respectively.

XTERMINEX

*General Purpose Insecticidal DUSTING POWDER
Containing 8% D.D.T. in finest quality English China Clay. In 8oz. sprinkler-top containers. 1/6*

EXOPEST

For Horticultural and Agricultural Use
DUSTING POWDER
Containing 5% D.D.T. in finest quality English China Clay.
In 8oz. sprinkler-top containers. 1/6

WETTABLE SPRAY

POWDER
5% D.D.T. — in 8oz. lever-lid containers. 1/9
25% D.D.T. — in 8oz. lever-lid containers. 2/6

for ATTRACTIVE TRADE TERMS apply:

THE HYGIENIC CHEMICAL CO. LTD

SALES OFFICE & WORKS
NEATH, GLAM.

**600
GROUP**

TELEPHONE NEATH 181
GRAMS-METALCLAD N° 1

GETTING BACK TO NORMAL

Deliveries of Soft Drinks are de-zoned on 12th October, 1947. This means that from that date you can resume business connections with your pre-concentration suppliers. It is true that limited supplies of bottles still restrict output, that anonymous labels and fixed standards of quality must remain for a while, and that manufacturers are in general allowed to supply only their former customers on the basis of their purchases in 1942. But it's a step in the right direction—a sign that the Soft Drinks Industry is getting back to normal. You can help by placing orders with those makers who supplied you in 1942.



Issued by the
Soft Drinks Industry (War Time) Association, Limited,
42 Upper Grosvenor Street, W.1

CVS-74

BEAR BRAND HONEY

Honey for Manufacturing Purposes

The Ministry of Food has now approved the following revised price schedule for Honey for manufacturing purposes which comes into operation immediately.

ORIGINAL PACKING

(56/60-lb. tins Australian Honey or 3½-cwt. barrels Jamaica Honey, as available)

For quantities of less than ½-ton @ 105/- per cwt.	-	-	Carriage Paid
For quantities of ½-ton or more @ 96/- per cwt.	-	-	Carriage Paid

REFINED REPACKED HONEY

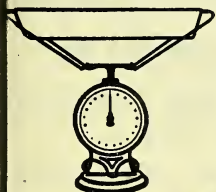
We can also supply refined, repacked Honey when required at the following prices:-
7/14-lb. tins, 145/- per cwt. 28-lb. tins, 130/- per cwt. 56-lb. tins, 120/- per cwt.
Nett, irrespective of quantity, and carriage paid.

L. GARVIN & CO. LTD., GARVIN HOUSE, ISLEWORTH, MIDDLESEX

MORE AND MORE SALTER SCALES



FOR MORE AND MORE NURSES



The maintenance of Salter accuracy is as vital to correct weight as the maintenance of correct weight is to health

SALTER

SELF-INDICATING SCALES

GEO. SALTER & CO. LTD., WEST BROMWICH

M-W.147



"CYCLOCHEM"

E.M. 4/76

General Emulsifier for any type
of O/W Emulsions

E.M. 455

Edible Emulsifier

Ask for our 24-page Handbook
"Cyclochem Self-Emulsifying Waxes"

Genuine Lauryl
Alcohol Sulphonates

Liquid, Powder, Paste.

CYCLO CHEMICALS LTD.

Wax Refiners and Chemical Manufacturers
MANFIELD HOUSE, STRAND, LONDON, W.C.2

Seven Seas COD LIVER OIL

is a best seller
and a quick mover.
Opportunities for
increasing
turnover are greater
than ever this
season. The greater
your turnover
the greater your
service to the
public.



Difficulties of production
and transport are not
going to be less. See that
your requirements are
well covered in good time
for the winter season.

ISSUED BY BRITISH COD LIVER OILS (HULL &
GRIMSBY) LTD., ST. ANDREW'S DOCK, HULL

SELTO Dental Salt

33½% Discount

PACKING materials are still difficult, but we are doing our best to effect prompt deliveries—please maintain stocks to meet increasing demand.

33½% discount. Bottles 1/10½, refills 1/7 (inc. tax).



SELTO (Eastbourne) Ltd.
Hampden Park Eastbourne

NO POINTS REQUIRED

“L & B” LIQUORICE AND
BLACKCURRANT
PELLETS

4 doz. display outers retail at 6d. per
packet inc. tax

Also

“LIKRO-MENTHS”
LIQUORICE AND MENTHOL
PELLETS

Packed 4 doz. display. Retail 6d. & 1/-
inc. tax.

Wholesalers Write :—

W. JAMES DAVIES (WESTERN) LTD.
MAINDY WORKS, CARDIFF

TO RECOMMEND

PLESOX

THE NATURAL STOMACH TREATMENT

NOT A PALLIATIVE
SUPPLEMENTS AND PROMOTES
NATURE'S OWN PROCESS

STOMACH TREATMENT

PLESOX

The DIFFERENT

STOMACH TREATMENT

WITH

NATION-WIDE ADVERTISING ATTRACTIVE WINDOW DISPLAY

RECOMMENDATION

SATISFIED USERS

**ARRESTING WINDOW SEALS
CONVINCING LITERATURE**

0 PROFIT ON OUTLAY

A large proportion of all stomach sufferers, and most long-standing cases do not respond well to alkaline or antacid products and call for **A SAFE RELIABLE REMEDY ON SOME QUITE DIFFERENT PRINCIPLE. As THEY NEED IT, SOONER OR LATER**—whether in your shop or elsewhere—**SUFFERERS WILL DISCOVER PLESOX**—and become satisfied users.

WHY LOSE such grateful customers with their constant repeat orders and recommendations to others.

Order now at 23/- mixed display cartons (8 small 4 medium)

SHOWING 50% PROFIT ON OUTLAY.

Retail Prices : 2/3d plus 3d P. Tax. 4/1½ plus 5½d P. Tax. 6/9d plus 9d P. Tax.

Distributors for GREAT BRITAIN: **SPLENDOR LIMITED, NOTTINGHAM.**

MANUFACTURERS : GRANTO LABORATORIES LTD.,
2 PARKSHOT RICHMOND-SHREY

33 $\frac{1}{3}$ % PROFIT FOR YOU!

*Every time you sell the
3 $\frac{1}{5}$ size Carters you gain 1/-*

IT'S EASY to sell the large-size Carters because the customer saves 10d. by buying it, and gets 5 more pills as well. Investigations show that one customer in every three will buy the large size when it is offered them. Supplies are readily available. Send your order now for large-size Carters Little Liver Pills and stop losing easy profits!

ORDER YOUR CARTERS LITTLE LIVER PILLS

Now!

from THOMAS MARNS LTD., 2 Caxton Street, S.W.1



TELL PRODUCTS LTD

have pleasure in announcing the appearance of a new anti-septic gargle and mouthwash to be retailed under the trade name of:—

TELLODONT

TRADE MARK

- All chemists should watch this journal for further details
- The product will be supported by a large advertising campaign, and generous terms will be offered.

TELL PRODUCTS, LTD.,
Manufacturing Chemists

16-26 ROSEMONT ROAD,
LONDON, N.W.3.

Telephone: HAMPSTEAD 9203

CLARK'S medical LIVER & KIDNEY SALT

An old favourite and ready seller now available again, at retail at 1/1½d. A Newball & Mason line. Attractive pack, attractive terms. Write for details.

NEWBALL & MASON LTD., NOTTINGHAM. Est. 1856

CHARCOAL

of every description for Filtering, Medicinal, Decolorizing, Absorption, etc.

PEAT & CHARCOAL LTD.
24, Union Road - Exeter - Devon.

**BRITISH
MADE**

AMPOULE FILES

are now available

We are now in a position to manufacture large quantities of Ampoule Files and invite inquiries

DOMINION STEEL CORPORATION LTD.

"FLEET" WORKS
QUEEN'S ROAD, SHEFFIELD, 2

JUST WHAT THE DOCTOR ORDERED'

FOR BIG & STEADY

Sales



Day by day, more and more people are finding quick relief from pain with KORAY tablets. The demand is being still further increased by powerful national advertising. Easy to handle and easy to sell, KORAY products are ideal counter lines, giving you a guaranteed standard of quality, assured and steady sales and a good margin of profit.

Profit from the demand for KORAY by stocking up—now.

3¹/₂^D

7^D

1/5

2/10

THE HOUSE OF KORAY, 25 HANOVER SQUARE, LONDON, W.1

JUST STARTING — STRONG NEW NATIONAL ADVERTISING CAMPAIGN FOR MACAULAY'S LUNG SYRUP

Check your stock — replacements should be ordered right away — the Macaulay's season is almost on us. A completely new idea in Lung Syrup advertising is going to bring sufferers from Coughs into your shop this winter to ask for Macaulay's—to demand it, in fact, and to walk out again if you are

out of stock. The big National Daily and Sunday newspapers and the important Provincial papers will have these advertisements. We create the demand; all you need do is carry the stock, display it, and reap the profit. Order Macaulay's from your usual wholesaler or direct from:

ASHLEY & WEEKS LIMITED *Manufacturing Chemists*
165 Mitcham Rd., London, S.W.17. Telephone: Balham 4416

Just out! A NEW, MODERN SOLUBLE TOWEL

Designed to give maximum efficiency and comfort, packed with scrupulous cleanliness and care—women will vote high marks for this new Velvet product.

Obtainable through all wholesalers.

RETAIL AT 1/9 A PACKET

13/5 PER DOZ. PKTS. TO WHOLESALE TRADE
15/9 PER DOZ. PACKETS TO RETAIL TRADE

VELENA

Manufactured by
Velvet Crepe Paper Co. Ltd., Alperton, Middx.

A VELVET PRODUCT • A VELVET PRODUCT •

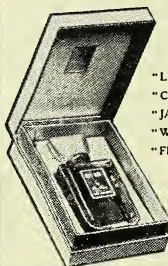
A VELVET PRODUCT • A VELVET PRODUCT • A VELVET PRODUCT



Rex Ray
MAKER OF FINE PERFUME

Chosen
FOR EXHIBITION AT
**Enterprise
Scotland 1947**

"GAY GAL" - by Rex Ray
"SCOTTISH HIGHLAND
HEATHER," - by Rex Ray



also

"LILY OF THE VALLEY"
"CINDERELLA" :: ::
"JASMINE" :: :: ::
"WHITE GARDENIA" ::
"FRENCH CHYPRE" ::



STANDARD RETAIL PRICES:
27s. 6d.—20s.—10s. 6d.—5s. Trial Size, 2s. 9d.
Purchase Tax Extra

EXPORT PARCELS (trial orders) £10 to £50
carriage paid sent direct by parcel post

HOME TRADE—May we add your name to
our waiting list?

REX RAY COMPANY, 14, BRIDGE STREET, ABERDEEN, SCOTLAND

A Few "4702" products



"EVERSURE"
TRADE MARK
SANI-PANTIE

SHOULDER PADS



"DUCHESS"
"ROYAL"
"PRINCESS"
"ACCENTUATE"
"EXAGGERATE"

"VALENTINE"
TRADE MARK



COMPACT

"MODERN MISS"
TRADE MARK
SANITARY BRIEF



WATERPROOF
AND
WASHABLE
NO BELT NEEDED

"MAJESTIC"
TRADE MARK



"MINI-PINN"



DRESS SHIELDS



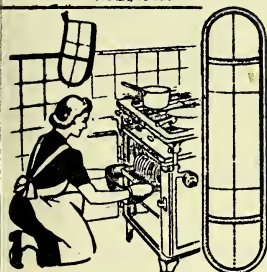
'LUNA'
TRADE MARK
MODERN
SANITARY
TOWEL

*The Greatest
Boon & Comfort*



GIVES COMPLETE
PROTECTION

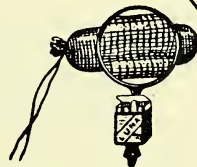
"VICTORY"
TRADE MARK



THE
"MAJESTIC MAJOR"
BABY
PANTS



OVEN GLOVE PADS ALSO COT SHEETS & ACCOUCHMENT SHEETS



EXPORT QUOTA AVAILABLE

MADE IN ENGLAND

24, HIGH STREET WANSTEAD LONDON E.11

MISCELLANEOUS OPPORTUNITIES

LACTAGOL

*For Expectant and
Nursing Mothers*

IS NOT A "MILK-BASE BABY FOOD"

AND THEREFORE
**not subject to
restrictions on sales
and may be supplied on
demand at pre-war prices**

*Glycerine, Gums; Waxes, "Spermaceti" etc.
Essential Oils; Lanoline; Petroleum Jelly;
Stearic Acids; French Talcs; Zinc Oxide;
Iso Propyl Alcohol; Triethanolamine; Lauryl
Alcohol Powder and Paste; Acetic Acid;
Glyceryl Monostearate; Cetyl Alcohol. All Fine
and Heavy Chemicals.*

HOME and EXPORT

J. J. VIGON & CO., LTD.
30 Fenchurch Street, London, E.C.3.
Mansion House, 0466/9

PRE-PACKING & LABELLING

(We can now accept fresh orders)
LIQUIDS: From Bulk into any size bottle
from $\frac{1}{2}$ oz.
POWDERS & TABLETS: Mixed and packed to customers
Specifications.
J. H. WISEMAN & CO. LTD.
100 Blackstock Road, Finsbury Park, N.4.

New lines wanted by London Distributing House
with view to Sole Distribution to Chemists, Ladies'
Hairdressers and Stores. Will purchase if necessary.
Large Sales force cover all of Great Britain and right
lines will be nationally advertised. Write to
British & International Proprietaries, Ltd.
30, Budge Row, London, E.C.4. B

OPTICAL TUITION

FOR THE
S.M.C., B.O.A., and N.A.O. DIPLOMA Examinations
Particulars:—
**C. A. Scurr, F.S.M.C., F.B.O.A., F.N.A.O.,
F.I.O., F.C.O., M.P.S.**
50 HIGH STREET, BARNET, LONDON, N.

BOTTLES FOR EARLY DELIVERY

New Bottles of all types available for early
delivery. Sizes $\frac{1}{2}$ oz. to 8 ozs. Medicals and
Toilets. Send full details of your requirements,
stating sizes and quantities to Box 164/542,
C. & D. Office.

PEGOL (REGD.)

"RUBGUM" TEETHING SYRUP

**SOOTHES BABY'S GUMS AND MAKES
TEETHING EASY**

**ATTRACTIVE SHOW CARD. BONUS
BOTTLE WITH EACH DOZEN. COST
14/6 DOZ. PLUS 2/7 $\frac{1}{2}$ TAX.
RETAILS 2/- BOTTLE**



*If your Wholesaler is out of stock,
write to Arlington Chemicals,
18/19 Arlington St., Hull, Yorks.*

FOR HOME AND EXPORT

Yorkshire distributors: Messrs. Lofthouse and
Saltmer, Hopwood St., Hull, B. Yorks.

for INDIAN BOTANICALS,
CRUDE DRUGS,
FOREST PRODUCTS, GUMS,
MEDICINAL PLANTS, SEEDS,
SPICES, ETC. to

B.P., U.S.P., B.P.C. & N.F. Standards.

Export Enquiries to:

**THE INDIGENOUS
MANUFACTURES & PRODUCE (Sales) CO.**
160 Govindappa Naick Street, Madras
Cables: Dandelions

**Clear Glass—
BOTTLES with bakelite CAPS
JARS with metal or bakelite CAPS**

Prompt and Reliable Delivery
Price List on enquiry

H. & A. DISTRIBUTORS LIMITED
19 MARKET STREET
Phone: MAIDENHEAD 2311

The CHEMIST AND DRUGGIST

SUPPLEMENT

OCTOBER 18
1947

This Supplement is inserted in every copy of The Chemist and Druggist

28 ESSEX STREET, LONDON, W.C.2.

prevailing restrictions and heavy demand on space necessitate the holding over of a number of advertisements week by week. As normal press days are in abeyance advertisers are advised to send instructions as early as possible. Advertisements must be prepaid. Box Office Numbers 2/- extra.

vacancies advertised are restricted to persons or employments excepted from the provisions of the Control of Engagement Order, 1947.

SITUATIONS OPEN

for 36 words or less, 3d. for every additional word

RETAIL (HOME)

E. HOBBS, Ltd., have vacancies for a pharmacist and an unqualified assistant for dispensing duties. Excellent opportunities to gain experience; high-class pharmacy; T.S.A. licence held. Positions are permanent with good salary and conditions of work. Flat available if necessary. Please send full particulars to 72 Mount Pleasant, Bridge Wells.

BIRMINGHAM. Qualified assistant for dispensing. Lady or gentleman. Permanent post. No day or holiday work. Reply giving experience, salary to Sidney H. Blunt, Ltd., 106 Wesley Green, Birmingham, 9.

Bristol. Pharmacist required to manage shop in suburbs. Congenial post. Easy hours. State reply required, 1/935, C. & D. Office.

DERBY Co-operative Provident Society, Ltd., requires pharmacist (lady or gentleman) as qualified assistant. Valuable opportunity for really qualified person seeking experience for positions of responsibility. Attractive conditions. Large salary employed. Apply by letter, stating full particulars to Secretary, Albion Street, Derby.

EXPERIENCED man, preferably qualified, required for high-class West London pharmacy. Excellent prospects and salary. Apply with full particulars to 1/578, C. & D. Office.

ARNHAM. Unqualified dispensing assistant, male or female, required for busy dispensing shop. Good salary; permanency. Apply to Retail Dept. (Drug), Timothy Whites & Taylors, 70 Vauxhall Bridge Road, S.W.1.

WENT, Folkestone. Dispenser, qualified or unqualified, required immediately for high-class pharmacy. Permanency for right person. State experience and salary required. F. G. Curtis & Son, Sandgate Road, Folkestone, Kent.

ADY dispenser-secretary, experienced G.P. and hospital, Hall certificate, desires post in London hospital or private practice or pharmacy. 1/983, C. & D. Office.

LONDON, W.1. Qualified assistant required for dispensing and counter. Please give full particulars of experience, also age, salary expected, and when disengaged, to Marsons, Ltd., 123 Baker Street, London, W.1.

L.P.S. Lady or gentleman, urgently required in old-established business as qualified permanent. Permanent position. No holiday Sunday duties. Hours 9 till 6 with 7 o'clock every sixth week. Small N.H.I. business. Apply 1/993, C. & D. Office.

PHARMACIST, recently qualified as senior assistant with view to management. Central London. Progressive salary. Apply, 146 Holborn, E.C.1.

QUALIFIED manager required immediately for branch pharmacy near Wrexham. Good prospects with old-established chemist's business. Please apply with full particulars, copies of references and salary required, to L. Rowland & Co., Ltd., Mitre Buildings, Brook Street, Wrexham, North Wales.

THE STOCKPORT Co-operative Society, Ltd., invite applications for the position of qualified assistant pharmacist, male or female, permanent, progressive position with good remuneration. Apply, stating age, wage, and experience, to The Secretary, Stockport Co-operative Society, Ltd., Chestergate, Stockport.

WANTED, fully qualified chemist branch manager; no half day or Sunday duties; good wages and conditions. Apply The Co-operative Society, Ltd., Ashton-Under-Lyne.

UNQUALIFIED assistants experienced in dispensing. Central London. Progressive salary. Permanency. Apply, 146 Holborn, E.C.1.

UNQUALIFIED, required. Male and female for dispensing and counter work. Salary and commission. Half-day Thursday, no Sunday work. Apply James Dawe & Co., Ltd., 106 King's Cross Road, W.C.1.

WHOLESALE

ANALYST with Ph.C. and/or A.R.I.C. qualifications required by large Manchester firm manufacturing pharmaceutical products, to control raw and finished materials. The position offers scope and good prospects to right man. Write, stating age, qualifications, experience, etc., to Analyst, P.O. Box No. 407, Manchester.

APPLICATIONS are invited for the position of department head for supervision of the manufacture of ethical pharmaceuticals. The position is permanent and progressive and offers excellent scope for the exercise of initiative and administrative ability. Apply stating age, qualifications and experience, and quoting reference number 791 to Box 2/6, C. & D. Office.

CHEMIST, productive and quantitative, required by rapidly growing concern of food and pharmaceutical manufactures. Excellent wages and prospects to the right man. 1/982, C. & D. Office.

COPYWRITER, free lance or spare time, required by dental manufacturers for ethical literature. 1/989, C. & D. Office.

FIRST-CLASS representative required by well-known proprietary house, to cover part East Coast Scotland, which includes Edinburgh and District, Fife, Angus and part of Perthshire. Car essential. Excellent opportunity for man with good connections with wholesale and retail chemists and stores. Salary, expenses, and commission basis. State full particulars, including age, and when free to commence. 1/988, C. & D. Office.

DAMANCY & CO., LTD., 41 High Street, Harrow, Middlesex, manufacturing chemists specialising in ethical pharmaceutical preparations will have vacancies on their representative staff at the end of this year for 2 qualified pharmacists. One to live in the Bristol area and work South-West England and South Wales, and the other to live in the Midlands and work the Midlands and East Anglia. Preference given to men with established connection with retail chemists, and own car. Existing clientele will be given to them. Vacancies due to retirement. Consideration will be given only to applications giving complete details in confidential first letter.

GENEROUS commission offered to salesmen calling on chemists, hairdressers and stores in Home Counties, Lancashire, Cheshire and Wales. Write for details to 1/902, C. & D. Office.

HAIR nets. Manufacturers selling direct to retailers require representatives commission basis all districts. Car essential. Only first-class men with established connections chemists, hairdressers, multiple and general stores entertained. 2/9, C. & D. Office.

MANUFACTURING chemists, Manchester, require qualified or unqualified process worker for general manufacturing. 5-day week. 1/994, C. & D. Office.

MANUFACTURING chemists specialising in emulsifiers and allied products require experienced representatives in N. London, S. Wales and Newcastle areas. Payment by salary, commission and expenses. 1/961, C. & D. Office.

QUALIFIED chemist. Executive post. Wholesale chemists supplying chemists, doctors and veterinary surgeons, as under manager, with view to succession. Replies treated in confidence. 1/931, C. & D. Office.

REPRESENTATIVES required by recently formed sales organisation marketing well-known advertised lines to retail and wholesale chemists, stores, Co-ops, etc., for following areas: (1) South Western Counties, (2) Bristol and South Wales, (3) Eastern Counties, (4) Midlands, (5) Lancashire, (6) Yorkshire. First-class opportunity for really reliable and conscientious salesmen with established connections. Must reside on ground, and preferably own car. Small salary, commission and expenses basis. Full particulars, age, lines at present handled, territory covered, etc., in strict confidence to 1/998, C. & D. Office.

REPRESENTATIVES with established connections with chemists required by manufacturers of household commodity (nursery) in daily use. Very liberal commission terms. Car essential. 1/971, C. & D. Office.

REPRESENTATIVES required, with established connections with chemists and stores, to carry additional cosmetic and perfumery lines. Lancashire and Yorkshire, Birmingham and Midlands, N.E. Coast and South Wales areas. Liberal commission terms. Write 2/11, C. & D. Office.

REPRESENTATIVES, preferably qualified, but not essential, already calling on doctors, hospitals and chemists, for all parts of the British Isles, to carry additional ethical product. Salary and commission. Please state lines carried, to 1/814, C. & D. Office.

SECRETARY required by manufacturers and wholesalers of ethical medical products. Responsible position; knowledge of drug trade and export trade an advantage. Excellent prospects for the right person. Salary commensurate with ability and experience. Apply in the first instance, to 1/984, C. & D. Office.

XMAS representatives and agents requiring Christmas novelties and gift lines are invited to communicate, giving particulars of territory. BCM/BONHEURE, W.C.2.

CLERICAL

OFFICE boy or girl wanted at once by trade and technical publishers. Must be willing and adaptable and age not over 16½ years. Application in own handwriting to the Staff Director, Morge Brothers (Publishers), Limited, 28 Essex Street Strand, London, W.C.2.

SITUATIONS WANTED

3/- for 18 words or less, 1d. for every additional word

RETAIL (HOME)

CHEMIST (50), requires responsible position retail or wholesale. Apply with full particulars. 1/911, C. & D. Office.

LOCUMS SEEKING ENGAGEMENTS

CHEMIST free to undertake locum work. Apply with full particulars. 1/912, C. & D. Office.

WHOLESALE

CHEMIST, non-graduate, single; 15 years' experience manufacturing, analytical and cosmetic firms, requires responsible position. 2/10, C. & D. Office.

PHARMACIST, resident Hants, four years representative experience with leading ethical house desires change to position offering opportunity for earning good salary and commission in return for energetic representation. 1/981, C. & D. Office.

REPRESENTATIVE (Scotland), 35, resident Glasgow, desires change. Manufacturer with own lines preferred. Large connection. Salary, commission, expenses. 1/985, C. & D. Office.

APPOINTMENTS

CROWN AGENTS FOR THE COLONIES

Applications from qualified candidates are invited for the following posts:—

PHARMACIST required by Government of British Guiana for Medical Department for tour of 2 years, possible permanency. Salary £500 x £25—£600 a year. Lecture fees about £50 a year. Cost of living allowance £60 a year. Free passages. Candidates, not over 35, preferably single, must be Members of the Pharmaceutical Society. Preference given to candidates holding either a University Degree in Pharmacy or the higher qualification of the Pharmaceutical Society (Ph.C.). Hospital and teaching experience an advantage. Apply at once by letter, stating age, whether married or single, and full particulars of qualifications and experience and mentioning this paper, to the Crown Agents for the Colonies, 4 Millbank, London, S.W.1, quoting M/N/14336 on both letter and envelope.

ROYAL NORTHERN HOSPITAL, Holloway, N.7.

ASSISTANT PHARMACIST required. Salary in accordance with the J.N.C. Scale. Applications, giving full particulars and accompanied by recent testimonials, should be sent to the undersigned,

GILBERT G. PANTER.
Secretary.

KENT COUNTY COUNCIL ASSISTANT PHARMACIST

Applications are invited for the following appointment at the County Pharmacy, County Hall, Maidstone.

ASSISTANT PHARMACIST (M.P.S. or B.C.) (Male). Hospital experience preferred. Salary £370 a year by four increments of £15 and one of £20 to £450 a year. Superannuation. Medical examination necessary.

Applications, stating age, qualifications, experience and the names and addresses of two responsible persons to whom references may be made as to professional ability, to be sent to the County Medical Officer, County Hall, Maidstone, as soon as possible.

W. L. PLATTS,

Clerk of the County Council,
Maidstone.

October 9, 1947.

SURREY COUNTY COUNCIL

ASSISTANT PHARMACIST required at:—
EPSOM COUNTY HOSPITAL, Dorking Road, Epsom.

KINGSTON COUNTY HOSPITAL, Wolverton Avenue, Kingston-on-Thames.
Commencing salary on grade £370 x £15—30 x £20—£450 p.a. inclusive.

Applications in writing, stating age, qualifications, and experience, with copies of not more than three recent testimonials, should be sent to the Medical Superintendent of the Hospital.

AGENCIES

for 36 words or less, 4d. for every additional word

WELL-CONNECTED manufacturers' agent with Manchester office and staff would be glad to hear from manufacturers who would like to be represented. 1/956, C. & D. Office.

AGENTS required for the distribution of well-known pharmaceutical products. Good prospects. London area. Apply to 1/966, C. & D. Office.

EXPORT agency would be pleased to assist manufacturers wishing to develop an export trade. 1/999, C. & D. Office.

ECHOSLOVAKIA. Old-established specialists in industrial chemicals invite offers for all sorts of crude chemicals, chemicals for paper, text-glass and leather industries. Aniline dyes. Test references available. Directors prepared to visit British firms in order to discuss eventual joint representation. Please send full details to "B.G.H.," c/o 95 Bishopsgate, E.C.2.

WANTED. Agents for extensive series of well-packed pharmaceutical and cosmetics, Hants, etc., Devon, Cornwall and Eastern Counties. 6, C. & D. Office.

WELL-ESTABLISHED distributors with good connections amongst chemists, stores, etc., are to receive inquiries for marketing proven anti-Write in confidence to 1/663, C. & D. Office.

AGENCIES WANTED

for 36 words or less, 3d. for every additional word

MANUFACTURERS' agent wishes to contact firms desiring representation in Eire. (1) Perry, (2) Patents, (3) Toilets and sundries. 2, C. & D. Office.

REPRESENTATIVE of manufacturing chemist requires additional good selling lines (preferably sold). Excellent connection with chemists, stores, hairdressers in London (including West End). Young, smart appearance, residing north-west London. 2/8, C. & D. Office.

BUSINESS OPPORTUNITIES

17/6 for 36 words or less, 4d. for every additional word

EIRE: Dublin firm of manufacturing chemists with good sales organisation are looking for lines suitable for chemists and stores. Will purchase with view to sole distribution. Space available for packing and manufacture. 1/997, C. & D. Office.

LET us handle the sale of your speciality. Good results. W. M. Gardner & Co., Ltd., 68 Kilburn Park Road, London, N.W.6. Telephone Maida Vale, 6205.

MANUFACTURERS of high-class beauty products invite wholesalers to apply for a range of samples. Keenest prices. Perfect packs. Fast selling quota lines. Suitable for chemists and hairdressers' stores. 1/987, C. & D. Office.

BUSINESSES WANTED

8/6 for 36 words or less, 3d. for every additional word

DRUG Store wanted by ex-Serviceman. Capital available for purchase if necessary. Would consider chemists or surgical store. B.W., 11 Froggnal Court, N.W.3. Term. 2838.

SUSSEX, Brighton or Hove area preferred, pharmacy or drug store. Living accommodation not essential. Strictest confidence maintained. Cash available and bank references. 2/4, C. & D. Office.

BUSINESSES FOR DISPOSAL

8/6 for 36 words or less, 3d. for every additional word

MANUFACTURING chemist, Leeds, showing nett profit around £1,000, for sale, including offices and storerooms on rental, furniture, fixtures, fittings, trade names, connection, etc., at less than value of stock, nearest price to £3,250. For quick sale as owner going abroad. Fine opportunity. Ask Henry Stead & Partners, Ltd., 29 Cookridge Street, Leeds, 2. Phone 23342 & 20208.

WIGAN. Old-established pharmacy in main street of Wigan for disposal; neglected, but has very good specialities with splendid opportunities for the future; low overheads; takings £1,200 per annum; can be increased to double by enterprising purchaser, with good profits. £250, goodwill and stock and fixtures at valuation. No agents need reply to this advertisement. Write 1/986, C. & D. Office.

MISCELLANEOUS SALES

17/6 for 36 words or less, 4d. for every additional word

BRITISH acriflavine in bottles of 500 grammes coming from overseas, 155/- per bottle, delivered London. Apply 1/991, C. & D. Office.

SEAMLESS TINS. 1 or 2 oz capacity. Lever lids, 30/- per gross, carriage forward. Packed in 10 gross cartons. Parekem Products, 41 Fountain Street, Manchester. Central 3031.

FOR sale, 100 gross blue enamelled sprinkler top powder tins, size 2 x 3½. 100 gross collapsible tins, 4 in. x 1 in. 20 gross 2½ in. square powder boxes. 20 gross 2-oz. cosmetic jars. All new in makers' original cartons. Offers to 1/990, C. & D. Office.

SURPLUS quantity for disposal. Metal screw caps 2½ in. diam. for sale. Also some odd lots of reclaimed bakelite caps in all sizes. Apply 1/993, C. & D. Office.

8-HYDROXYQUINOLINE sulphate. Up to 400 lb. at 22/- lb., ex works. Sample on request. 1/944, C. & D. Office.

FOR SALE**8/6 for 36 words or less, 3d. for every additional word****R**OBERTS' patent tin filling machine. Unused. For sale. BCM/BONHEURE, W.C.2.**S**SMALL surplus stock of rubber bands in all sizes, made from high quality rubber offered for packing purposes at lowest prices. Feather supplies, Ltd. (Rubber Dept.), 7 Cambridge Avenue, Kilburn, N.W.6.**1** DRUM of terpinolene, bulk essences (almond, raspberry and cochineal). 2-oz. fancy bottles and ½-oz. vials. 2/1, C. & D. Office.**WANTED****8/6 for 36 words or less, 3d. for every additional word****D**EODORISED Chinese tea seed oil or apricot nut oil urgently required for north-east canteen. Could take 6 x 48 gallon drums. Write or wire 2/5, C. & D. Office.**L**IQUORICE and menthol pellets required in bulk. 1/640, C. & D. Office.**R**EQUIRED, Kodak 16 mm. projector along with suitable screen. Best price paid. 2/3, C. & D. Office.**T**WO cash registers wanted, suitable for café and restaurant. Gilson, 17A St. Andrews Road, Kingsbury, N.W.9.**W**ANTED urgently. 16-oz. bottles. Large or small quantities. Frank Macowal, Ltd., 30 Loughborough Street, Kennington, S.E.11.**W**ANTED urgently. Stearic acid, all grades, any quantity. Samples and quotations to Harman Dietetic Laboratories, Ltd., Cavendish Works, North Parade, Burnt Oak, Middlesex.**W**ANTED urgently: 10 gross each stoppered and C.M. 20 oz. bottles. Must be amber, win. shape. Good price paid. Reply 1/435, C. & D. Office.**TENDERS****CITY AND COUNTY OF BRISTOL
DEPARTMENT OF PUBLIC HEALTH**

The Health Committee invite quotations for supply of following goods for City Hospital, Sanatoria, Health Centres, etc., for six months commencing 1st November, 1947.

Essential Drugs and Chemicals.

Medical Sundries.

Forms of tender, obtainable from undersigned, should be returned in plain sealed envelope by 10 a.m., Monday, 20th October, 1947, superscribed to show goods tendered for, but without any name or mark indicating sender. Contractors required observe fair wages clauses of Council; tenderers must state whether on King's Roll. Lowest or any tender not necessarily accepted.

R. H. PARRY, Medical Officer of Health, "Kenwith Lodge," Westbury Park, Bristol, 6, October, 1947.

TRADE MARKS

TRADE Mark required. A manufacturing company desires to purchase a Trade Mark (word) already registered, but not at present in use, for a biting insect repellent for household use. A short word-mark preferred. Write stating actual mark and registered owner in first letter to 2/2, C. & D. Office.

SALES BY AUCTION

By Order of the Minister of Supply.

**TWO WEEKS' SALE at M.O.S. Storage Depot
THORP ARCH,**

Nr. Wetherby, Yorks W.R.

Auction Sale of Government
**SURPLUS STORES
and GENERAL EQUIPMENT,**
including:—

CHEMICALS, etc. Boric Acid, Triethanolamine, Nitric Acid, Sodium Nitrate, Carboric Acid, Zinc Chloride, Hypo sulphate of Soda, Formaldehyde, Sodium Carbonate, Silicate of Soda, Potassium Perchlorate, Sodium Sulphate, Mercury Nitrate, Copper Sulphate, Sodium Hydroxide, etc.

Also **HARDWARE**, Tools, Builders' Materials, Dyes, etc., and Miscellaneous Stores.

The above items can be viewed in bulk from Monday to Friday, October 20th to 24th inclusive from 10 a.m. to 4 p.m. to Catalogue Holders.

SALE to commence Monday, October 27th and to continue Monday to Friday for two weeks at 10.30 a.m. each day.

CATALOGUES of the Sale (to admit two on View Days and one only on Sale Days) may be had price 6d. at the Main Entrance Gate to the Factory or from the Auctioneer's offices (by post 9d.).

BARTLE & SON, Garforth, Leeds.

PUBLIC NOTICE**THE DEPARTMENT OF AGRICULTURE
FOR SCOTLAND****PUBLIC NOTICE**

Notice is hereby given that, under and in terms of the Ministry of Food Infestation Orders, 1943 and 1945, as amended by the Transfer of Functions (Scotland) Order, 1947, no firm or person in Scotland, not already in possession of an appropriate licence from the Ministry of Food, may manufacture any commodity adapted or intended for the destruction of rats or mice, or for the treatment or prevention of infestation of stored foodstuffs by rats, mice, insects, fungi, etc., without a licence granted by the Secretary of State for Scotland.

This requirement applies to firms or persons manufacturing such commodities for home or overseas sale or for use by themselves in the business of pest destruction. It does NOT apply to firms or persons engaged solely in the retail sale of such commodities to the public, nor to firms or persons engaged in the manufacture of commodities designed to treat infestation by the following:—

Body Pests, Veterinary Pests, Public Health Pests (including flies), Agricultural and Horticultural Pests (including Weed Killers).

Enquiries and requests for forms of application should be addressed to The Secretary, Department of Agriculture for Scotland, 15 Grosvenor Street, Edinburgh, 12.

October 18, 1947

THE CHEMIST AND DRUGGIST

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BROMIDES

SODIUM POTASSIUM
AND ALL SALTS

MANUFACTURED BY

WHIFFEN & SONS, LTD.

**ALDRSGATE CHEMICAL WORKS
FULHAM, LONDON, S.W.6**

TELEPHONE :
RENOWN 3416 Private Branch Exchange

TELEGRAMS :
WHIFFEN, LONDON

A 25 day vitamin course in 25 **TYEVITE** capsules

BECAUSE EACH Tye vite vitamin capsule contains the recommended FULL DAILY prophylactic dose.



FORMULA

Vitamin A 4,500 i.u. . . . equals one standard capsule of Halibut Oil (N.W.F.)

PLUS

Vitamin D (Calciferol) ...	600 i.u.
Vitamin B1	
(Aneurin hydrochloride) ...	0.3 Mg.
Vitamin B2 (Riboflavin) ...	0.5 Mg.
Vitamin C (Ascorbic Acid) ...	15.0 Mg.
Vitamin E	
(Tocopheryl acetate) ...	0.15 Mg.
equals 1 minim of high grade Wheat Germ Oil	
Calcii Phos. ...	20.0 Mg.
Ferri Phos. ...	100.0 Mg.

Other Tyebrand products include:—

TYEBRAND Halibut Liver Oil (N.W.F.) capsules, TYEBRAND Vitamin A & D (N.W.F.) capsules, TYEBRAND Pluravit (N.W.F.) capsules, TYEBRAND Vitamin "E" capsules, TYEBRAND Vitamin "D" capsules.

INTRODUCTORY BONUS OFFER

Order TYEVITE in its new display carton. Retailing at 5/- per box TYEVITE is the most economically priced vitamin course on the market. A complete 25-day course contained in only 25 capsules. TYEVITE is headed for the success achieved by other Tye products. Send now for introductory bonus offer—13 tins for trade price of 12.

JOHN TYE & SON LTD. · MANUFACTURING CHEMISTS · 457 CALEDONIAN ROAD · N7

CAPSULE MAKERS FOR OVER A CENTURY

ANTYEMOSTIK—A SHIELD AGAINST INSECT PESTS

TYESUCLEAN—CLOTHING STAIN-REMOVER

Best sellers are capsuled by **TYE**

